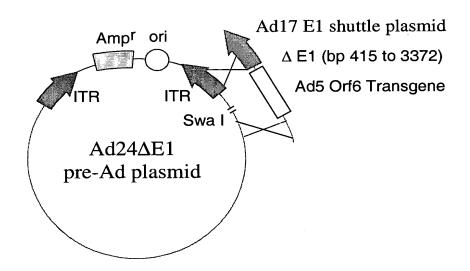
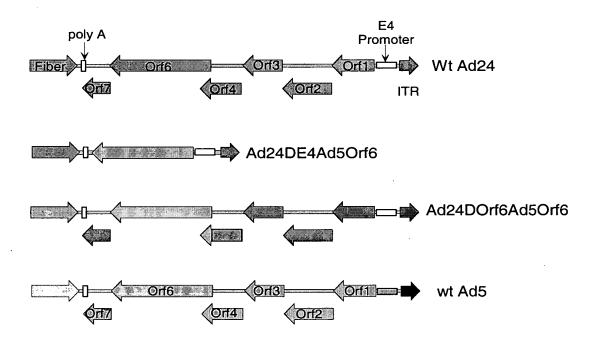
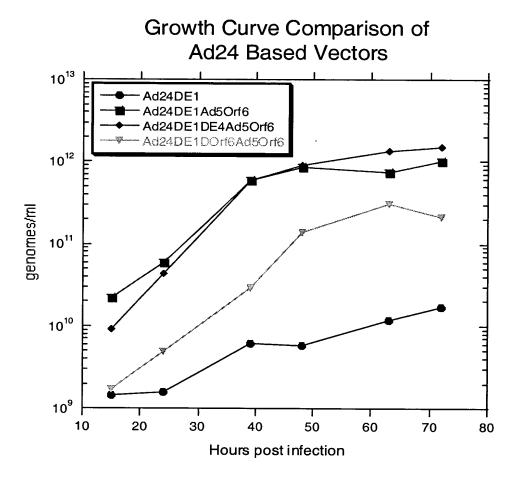


FIG. 1







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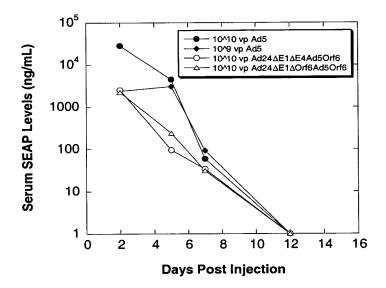
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35161 gatgatc
```

Grp	Vaccine	Monkey	P	re	Wk 4 Wk 8		Wk	12		
	at Wk 0, Wk 4	ID	Mock	Gag	Mock	Gag	Mock	Gag	Mock	Gag
1	Ad24AE 1000AOrf6Ad5Orf6	00C072	3	4	4	381	3	150	3	68
	10^11 vp	00C178	3	3	1	559	1	743	0	635
	•	00C222	0	3	1	369	1	753	0	670
		00D011	1	9	9	211	4	273	0	520
		00D023	0	6	0	295	1	459	1	368
		00D031	15	5	10	103	ו	101	1	40
2	Ad24∆E 1gog∆Orf6Ad5Orf6	99C168	4	6	0	118	5	241	3	209
_	10^10 vp	99C170	10	5	5	241	3	141	3	103
		99C173	1	3	0	23	0	14	0	21
3	Ad24∆E1gcg∆E4Ad5Orf6	99C154	0	3	0	93	0	60	1	53
	10^10 vp	99C158	1	0	1	141	0	101	1	120
	·	99C177	0	0	0	45	0	39	0	79
4	MRKAd5-HIVgag	00C018	1	5	13	1025	0	824	3	753
	10^11 vp	00C034	0	4	5	219	5	404	0	491
	·	00C058	4	4	3	1086	0	440	0	439
5	MRKAd5-HIVgag	99C218	0	3	5	2500	0	1580	10	1655
	10^10 vp	99C227	6	1	4	529	5	365	5	1004
		99D185	ND	ND	0	425	0	310	0	271

Vaccine	Monkey	Gag-Speci	fic (Wk 12)
at Wk 0, Wk 4	ID	%CD4	%CD8
Ad24∆E 1gag∆Orf6Ad5Orf6	00C072	0.02	0.02
10^11 vp	00C178	0.05	0.38
	00C222	0.02	0.40
	00D011	0.02	0.27
	00D023	0.01	0.11
	00D031	0.01	0.01
MRKAd5-HIVgag	00C018	0.05	0.41
10^11 vp	· 00C034	0.06	0.18
	00C058	0.02	0.28

1	at Wk 0, Wk 4 Ad24∆E 1909∆Orf6Ad5Orf6 10^11 vp	00C072 00C178 00C222	<10 <10	77 26
1		00C178 00C222	<10	1
	10^11 vp	00C222		26
			.10	_~ _
			<10	423
		00D011	<10	98
		00D023	<10	<10
		00D031	<10	<10
2	Ad24∆E 1 gog∆Orf6Ad5Orf6	99C168	<10	<10
_	10^10 vp	99C170	<10	<10
	10 10 γρ	99C173	<10	<10
		330173	V10	\10
3	Ad24ΔE1gogΔE4Ad5Orf6	99C154	<10	<10
	10^10 vp	99C158	<10	<10
		99C177	<10	<10
4	MRKAd5-HIVgag	00C018	34	1017
	10^11 vp	00C034	14	423
	•	00C058	46	934
5	MRKAd5-HIVgag	99C218	20	99
	10^10 vp	99C227	40	767
		99D185	17	342



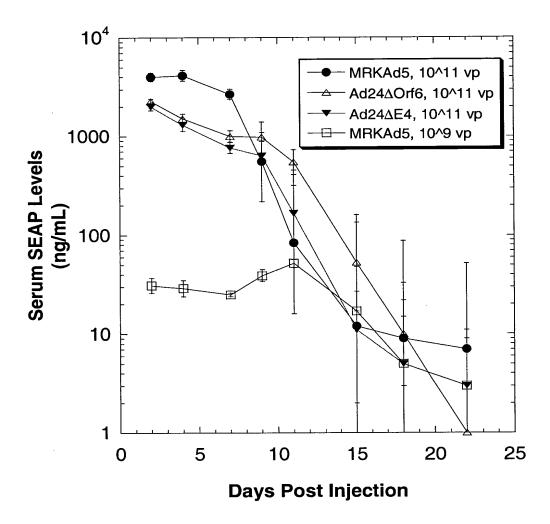
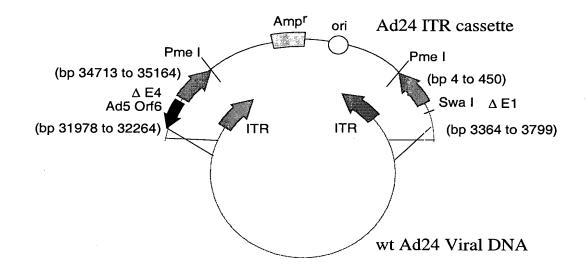


FIG. 10



Sequence of the open reading frame for FL-gag (human codon optimized)

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901 TGTGTGGGCC TCCAGGGAGC TGGAGAGGTT TGCTGTGAAC CCTGGCCTGC TGGAGACCTC
961 TGAGGGGTGC AGGCAGATCC TGGGCCAGCT CCAGCCCTCC CTGCAAACAG GCTCTGAGGA
1021 GCTGAGGTCC CTGTACAACA CAGTGGCTAC CCTGTACTGT GTGCACCAGA AGATTGATGT
1081 GAAGGACACC AAGGAGGCCC TGGAGAAGAT TGAGGAGGAG CAGAACAAGT CCAAGAAGAA
1141 GGCCCAGCAG GCTGCTGCTG GCACAGGCAA CTCCAGCCAG GTGTCCCAGA ACTACCCCAT
1201 TGTGCAGAAC CTCCAGGGCC AGATGGTGCA CCAGGCCATC TCCCCCGGA CCCTGAATGC
1261 CTGGGTGAAG GTGGTGGAGG AGAAGGCCTT CTCCCCTGAG GTGATCCCCA TGTTCTCTGC
1321 CCTGTCTGAG GGTGCCACCC CCCAGGACCT GAACACCATG CTGAACACAG TGGGGGGCCA
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35041 atttaaaacc tcatttgcat attaactttt gtttactttg tggggtatat tattgatgat
35101 g
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PacI

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1	TTCTTAATTA	ACATCATCAA	TAATATACCT	TATTTTGGAT	TGAAGCCAAT
	AAGAATTAAT	<b>ТСТАСТАСТТ</b>	ATTATATGGA	ATAAAACCTA	ACTTCGGTTA
		101110111011			
		aaaaamaa a	mmmama 2 00m	000000000	amaaaa
51				GGCGCGGGC	
	TACTATTACT	CCCCCACCTC	AAACACTGCA	CCGCGCCCCG	CACCCTTGCC
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	CCGCCCACTG	CATCATCACA	CCGCCTTCAC	ACTACAACGT	TCACACCGCC
151	<b>አ</b> ልሮልሮልሞፎሞል	ACCGACGGAT	GTGGCAAAAG	TGACGTTTTT	сететесесс
				ACTGCAAAAA	
	TIGIGIACAT	ICGCIGCCIA	CACCGITIIC	ACIGCAAAAA	CCACACGCGG
201				GGTTTTAGGC	
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301	GAATAAGAGG	ΔΔΩΤΩΔΔΑΤΟ	<b>ТСААТААТТ</b>	TGTGTTACTC	ATAGCGCGTA
301				ACACAATGAG	
	CITATICIC	IICACIIIAG	ACTIATIAM	ACACAMIGAG	INICOCOCNI
254			CC1 CMMMC1 C	COMMUNICATION COMM	G1 G1 GEGGGG
351				CGTTTACGTG	
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401				CCGGGTCAAA	
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,				4	
451	TATTATTATA	GGCGGCCGCG	ATCCATTGCA	TACGTTGTAT	CCATATCATA
	ATAATAATAT	CCGCCGGCGC	TAGGTAACGT	ATGCAACATA	GGTATAGTAT
501	<b>Δ</b> ΤΑΤΩΤΑΓΆΤ	ጥጥልጥልጥጥርርርር	<b>ТСАТСТССА</b> А	CATTACCGCC	ATGTTGACAT
501				GTAATGGCGG	
	IMIMCAIGIA	AAIAIAACCG	AGIACAGGII	GIAAIGGCGG	IACAACIGIA
FF1	ma. mm. mma.	Cm3 Cmm3 mm3	3 M3 CM3 3 MC3	3 mm3 000000m	CA MMA CMMCA
551			<del>_</del>	ATTACGGGGT	
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651	CTGGCTGACC	GCCCAACGAC	CCCCGCCCAT	TGACGTCAAT	AATGACGTAT
				ACTGCAGTTA	
701	ではない。	TA ACCCCA A T	ACCCA COMPO	CATTGACGTC	A A TICCOTOCA
, 01				GTAACTGCAG	
	CAAGGGTATC	ATTGCGGTTA	TCCCTGAAAG	GTAACTGCAG	TACCCACCT
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	CACCTTCTTC	TTCCGGGTCG	TCCGACGACG	ACCGTGTCCG	TTGAGGTCGG
	01100110110				
1651	3.00m0m00003	GAACTACCCC	አመጥረጥረርአርአ	»CCTCC»CCC	ССУСУФССТС
1651					
	TCCACAGGGT	CTTGATGGGG	TAACACGTCT	TGGAGGTCCC	GGTCTACCAC
1701	CACCAGGCCA	TCTCCCCCG	GACCCTGAAT	GCCTGGGTGA	AGGTGGTGGA
	GTGGTCCGGT	AGAGGGGGC	CTGGGACTTA	CGGACCCACT	TCCACCACCT
1751	CCACAACCCC	TTCTCCCCTG	አርርጥር አጥር CC	СУФСФФСФСФ	ССССТСТСТС
1/31		AAGAGGGGAC			
	CCTCTTCCGG	AAGAGGGGAC	TCCACTAGGG	GTACAAGAGA	CGGGACAGAC
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	TCCCACGGTG	GGGGGTCCTG	GACTTGTGGT	ACGACTTGTG	TCACCCCCCG
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1951	AGATGAGGGA	GCCCAGGGGC	TCTGACATTG	CTGGCACCAC	CTCCACCCTC
		CGGGTCCCCG			
		000010000			
0001	a. aa. aa. a	TTGGCTGGAT	0300330330	CCCCCCAMCC	CTCTCCCCCA
2001					
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2101	3 CMCCCCC3 C	CTCCATCCTG	CACATCAGGC	ACCCCCCAA	CCACCCCTTC
2101		GAGGTAGGAC			
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2201	ССУССУССТС	AAGAACTGGA	TGACAGAGAC	CCTGCTGGTG	CAGAATGCCA
					GTCTTACGGT
	GGICCICCAC	IICIIGACCI	ACIGICICIO	GGACGACCAC	01011110001
		A A	amas s acaca	maaaaaaaa	magaa aaama
2251					TGCCACCCTG
	TGGGACTGAC	GTTCTGGTAG	GACTTCCGGG	ACCCGGGACG	ACGGTGGGAC
2301	GAGGAGATGA	TGACAGCCTG	CCAGGGGGTG	GGGGGCCCTG	GTCACAAGGC
-					CAGTGTTCCG
					, _
0251	03.000mccmc	CCTC > CCCC >	mcmccca ccm	CACCAACTCC	GCCACCATCA
235I					
	GTCCCACGAC	CGACTCCGGT	ACAGGGTCCA	CTGGTTGAGG	CGGTGGTAGT

2401	TGATGCAGAG	GGGCAACTTC	AGGAACCAGA	GGAAGACAGT	GAAGTGCTTC
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	ACTACGTCTC	CCCGTTGAAG	icciiggici	CCITCIGICA	CIICACGAMG
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2651	CCACMCCMMC	A COMMINGOCO	ACCACAACAC	CACCCCAGC	CAGAAGCAGG
762T					
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2701	AGCCCATTGA	CAAGGAGCTG	TACCCCCTGG	CCTCCCTGAG	GTCCCTGTTT
	ጥሮርርርጥል አርጥ	CTTCCTCCAC	ATGGGGGACC	GGAGGGACTC	CAGGGACAAA
	ICGGGIAMCI	GIICCICOM		00000010	
2751				GCCCGGGCAG	
	CCGTTGCTGG	GGAGGAGGGT	CATTTTATTT	CGGGCCCGTC	TAGACGACAC
2801	<b>CC</b> ጥጥርጥልርጥጥ	CCCACCCATC	ጥርጥጥርጥጥጥርር	CCCTCCCCG	TGCCTTCCTT
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	GGAAGATCAA	CGGTCGGTAG	ACAACAAACG	GGGAGGGGC	ACGGAAGGAA
•					
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	CTGGGACCTT	CCACGGTGAG	GGTGACAGGA	AAGGATTATT	TTACTCCTTT
0001			3.00m0m03.mm	CM3 MMCMCCC	
2901				CTATTCTGGG	
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,					
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				CTGTTATCGT	
	CCCGICCIGI	CGIICCCCCI	CCIMCCCII	CIGIAMICGI	000111001100
3001					AAATGTGTGG
	CCTACGCCAC	CCGAGATACC	GGCTAGCCGC	GCGGCATGAC	TTTACACACC
3051	СССФСССФФХ	ACCCTCCCA A	<b>ል</b> ርልልጥልጥልጥል	ACCTCCCCCT	CTTATGTAGT
2021					
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04-4	03 m003 3 005	mmama:	3 M3 MMMA3 A3	3.000003 mcc	00003 m0000
3151					CCCCATGGGC
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3401			GATGACAAGT CTACTGTTCA		
3451		TGACCCGGGA ACTGGGCCCT	ACTTAATGTC TGAATTACAG	GTTTCTCAGC CAAAGAGTCG	
3501		CAGGTTTCTG GTCCAAAGAC	CCCTGAAGGC GGGACTTCCG	<del>-</del>	CCCAATGCGG GGGTTACGCC
3551			CCAGACTCTG GGTCTGAGAC		GATCAAGCAA CTAGTTCGTT
3601			AGGGGTTTTG TCCCCAAAAC		
3651			GGGTCCTGTG CCCAGGACAC		
3701	AAAGGTGACT	CTGGATGTTC	AGATACATGG TCTATGTACC	GCATAAGCCC	GTCTCTGGGG
3751	TGGAGGTAGC	ACCACTGCAG	AGCTTCATGC TCGAAGTACG	TGCGGGGTGG	TGTTGTAGAT
3801	GATCCAGTCG	TAGCAGGAGC	GCTGGGCGTG	GTGCCTAAAA	ATGTCTTTCA TACAGAAAGT
3851	GTAGCAAGCT	GATTGCCAGG	GGCAGGCCCT	TGGTGTAAGT	GTTTACAAAG CAAATGTTTC
3901	CGGTTAAGCT	GGGATGGGTG	CATACGTGGG	GATATGAGAT	GCATCTTGGA CGTAGAACCT
3951	CTGTATTTT	AGGTTGGCTA	TGTTCCCAGC	CATATCCCTC	CGGGGATTCA
				> ====================================	

4001		AACCACCAGC TTGGTGGTCG			
4051		TAGAAGGAAA ATCTTCCTTT			
4101		TTTTCCATGC			
	TGGAGGTTCT	AAAAGGTACG	TAAGCAGGTA	TTACTACCGT	TACCCGGGTG
4151		CTGGGCGAAG GACCCGCTTC		GATCACTAAC CTAGTGATTG	
4201		TGAGATCGTC ACTCTAGCAG			
4251		TGCGGTATAA ACGCCATATT			
4301		TTGCATTTCC			
		AACGTAAAGG			
4351		GGGCGATGAA CCCGCTACTT			
4401		AGCAGGTTCC			
		TCGTCCAAGG			
4451		CACACCTATT GTGTGGATAA			
4501		CATCCCTGAG			
					CGTACAGGGA
4551		TTTTCCCTGA AAAAGGGACT			TCGCCGCCCA AGCGGCGGGT
4601					TTTGAGACCG
					AAACTCTGGC
4651					CCAGGCGGTC GGTCCGCCAG
4701					ATATCTCCTC
					TATAGAGGAG
4751					CGGTGCTCGT GCCACGAGCA

4801	CCAGACGGGC	CAGGGTCATG	TCTTTCCACG	GGCGCAGGGT	CCTCGTCAGC
4001				CCGCGTCCCA	
	GGTCTGCCCG	GICCCAGIAC	AGAAAGGIGC	CCGCGICCCA	GGAGCAGICC
4851				CCGGGCTGCG	
	CATCAGACCC	AGTGCCACTT	CCCCACGCGA	GGCCCGACGC	GCGACCGGTC
4001	CCMCCCCMMC	N C C C M C C M C C	mccmccmccm	GAAGCGCTGC	<b>CGGTCTTCGC</b>
4901					
	CCACGCGAAC	TCCGACCAGG	ACGACCACGA	CTTCGCGACG	GCCAGAAGCG
4951	CCTGCGCGTC	GGCCAGGTAG	CATTTGACCA	TGGTGTCATA	GTCCAGCCCC
				ACCACAGTAT	
	GGACGCGCAG	CCGGICCAIC	GIMMICIOUI		
5001				CCCTTGGAGG	
	AGGCGCCGCA	CCGGGAACCG	CGCGTCGAAC	GGGAACCTCC	TCCGCGGCGT
5051	CCACCCCCAC	ጥርሮልርልሮጥጥጥ	тсассссста	GAGCTTGGGC	GCGAGAAATA
3031					
	GCTCCCCGTC	ACGTCTGAAA	ACTCCCGCAT	CTCGAACCCG	CGCTCTTTAT
5101	CCGATTCCGG	GGAGTAGGCA	TCCGCGCCGC	AGGCCCCGCA	GACGGTCTCG
	GGCTAAGGCC	CCTCATCCGT	AGGCGCGGCG	TCCGGGGCGT	CTGCCAGAGC
	00021				
			cmcmcccccm	maaaaaama a	3 3 3 CC 3 CCMM
5151				TCGGGGTCAA	
	GTAAGGTGCT	CGGTCCACTC	GAGACCGGCA	AGCCCCAGTT	TTTGGTCCAA
5201	TCCCCCATGC	TTTTTGATGC	GTTTCTTACC	TCTGGTTTCC	ATGAGCCGGT
				AGACCAAAGG	
	AGGGGGIACG	AMMICIACO	CIMMONIC		
5251				TGTCCCCGTA	
	CAGGTGCGAG	CCACTGCTTT	TCCGACAGGC	ACAGGGGCAT	ATGTCTGAAC
5301	አርአርርርርጥርጥ	CCTCGAGCGG	<b>ጥርጥጥር ርርርር</b>	ጥሮርጥሮርጥሮርጥ	ATAGAAACTC
JJ01					TATCTTTGAG
	TCTCCGGACA	GGAGCTCGCC	ACAAGGCGCC	AGGAGGAGCA	INICIIIGAG
5351				GGCCAGCACG	
	CCTGGTGAGA	CTCTGTTTCC	GAGCGCAGGT	CCGGTCGTGC	TTCCTCCGAT
-	3 CMCCC3 CCC	CM3 CCCCMCC	mmcmcca cma	CCCCCTCCAC	TCGCTCCAGG
5401					
	TCACCCTCCC	CATCGCCAGC	AACAGGTGAT	CCCCCAGGTG	AGCGAGGTCC
	•				
5451	GTGTGAAGAC	ACATGTCGCC	CTCTTCGGCA	TCAAGGAAGG	TGATTGGTTT
					ACTAACCAAA
	JALUACE ICEG				
				mas s cacaca	OM2 M2 2 2 2 C C
5501					CTATAAAAGG
	CATCCACATC	CGGTGCACTG	GCCCACAAGG	ACTTCCCCCC	GATATTTTCC
5551	GGGTGGGGGC	GCGTTCGTCC	TCACTCTCTT	CCGCATCGCT	GTCTGCGAGG
					CAGACGCTCC
	CCCACCCCG	DUAJUAAJU	AG I GAGAGAA	GGCGIAGCGA	CACACGCICC

5601			CTCCCTCTGA GAGGGAGACT		
5651			AAAACGAGGA TTTTGCTCCT		
5701			GTGGCCGCAT CACCGGCGTA		
5751			GGTGGCAAAC CCACCGTTTG		
5801			GCAGGGTTTG CGTCCCAAAC		
5851			AGCTGCACGT TCGACGTGCA		
5901	·		GCGCTCGTCG CGCGAGCAGC		
5951			CAAGGTCAAC GTTCCAGTTG		
6001			CAGAGGCGGC GTCTCCGCCG		
6051		-	CGTCTCGTCC GCAGAGCAGG		
6101			GCGCGTCGAA CGCGCAGCTT		
6151			CATGCGCGGG GTACGCGCCC		
6201	GGGTTGAGTG	GGGGACCCCA	TGGCATGGGG	TGGGTGAGCG	
6251	CATGCCGCAA GTACGGCGTT				ATTCCAAGAT TAAGGTTCTA
6301					GTAATCGTAT CATTAGCATA
6351	AGTTCGTGCG TCAAGCACGC				TACGGGCGGG ATGCCCGCCC

6401			TCTGCCTGAA		
	GACGAGACGA	GCCTTCTGAT	AGACGGACTT		
6451	- ·	ACGCTGGAAG		TGGCGTCTGT	
	TATACCAACC	TGCGACCTTC	TGCAACTTCG	ACCGCAGACA	CTCTGGATGG
6501	GCGTCACGCA	CGAAGGAGGC	GTAGGAGTCG	CGCAGCTTGT	TGACCAGCTC
	CGCAGTGCGT	GCTTCCTCCG	CATCCTCAGC	GCGTCGAACA	ACTGGTCGAG
6551	GGCGGTGACC	TGCACGTCTA	GGGCGCAGTA	GTCCAGGGTT	TCCTTGATGA
	CCGCCACTGG	ACGTGCAGAT	CCCGCGTCAT	CAGGTCCCAA	AGGAACTACT
6601	TGTCATACTT	ATCCTGTCCC	TTTTTTTCC	ACAGCTCGCG	GTTGAGGACA
	ACAGTATGAA	TAGGACAGGG	AAAAAAAAGG	TGTCGAGCGC	CAACTCCTGT
6651	AACTCTTCGC	GGTCTTTCCA	GTACTCTTGG	ATCGGAAACC	CGTCGGCCTC
	TTGAGAAGCG	CCAGAAAGGT	CATGAGAACC	TAGCCTTTGG	GCAGCCGGAG
6701	CGAACGGTAA	GAGCCTAGCA	TGTAGAACTG	GTTGACGGCC	TGGTAGGCGC
	GCTTGCCATT	CTCGGATCGT	ACATCTTGAC	CAACTGCCGG	ACCATCCGCG
6751	AGCATCCCTT	TTCTACGGGT	AGCGCGTATG	CCTGCGCGGC	CTTCCGGAGC
·	TCGTAGGGAA	AAGATGCCCA	TCGCGCATAC	GGACGCGCCG	GAAGGCCTCG
6801	GAGGTGTGGG	TGAGCGCAAA	GGTGTCCCTG	ACCATGACTT	TGAGGTACTG
	CTCCACACCC	ACTCGCGTTT	CCACAGGGAC	TGGTACTGAA	ACTCCATGAC
6851	GTATTTGAAG	TCAGTGTCGT	CGCATCCGCC	CTGCTCCCAG	AGCAAAAAGT
	CATAAACTTC	AGTCACAGCA	GCGTAGGCGG	GACGAGGGTC	TCGTTTTTCA
6901					GACATCGTTG
·			CCTAAACCGT		
6951					TGCGGAAGGG
			TCCGTATTTC		
7001					AGCACGATCT
					TCGTGCTAGA
7051					CAAGAAGCGC
	GCAGTTTCGG	CAACTACAAC	ACCGGGTGTT	ACATTTCAAG	GTTCTTCGCG
7101					AGGTGAGCTC
					TCCACTCGAG
7151					GCAAGATGAG
	AAGTCCCCTC	GACTCGGGCA	CGAGACTTTC	CCGGGTCAGA	CGTTCTAÇTC

7201			CTCCACAGGT GAGGTGTCCA	
7251			AAACTGGCGA TTTGACCGCT	
7301		-	GCGGGTCTTG CGCCCAGAAC	
7351			GCGGCAGTCA CGCCGTCAGT	
7401			GGGCACGAGC CCCGTGCTCG	
7451			CGTAGGTGAC GCATCCACTG	
7501			AACTGGATCT TTGACCTAGA	
7551			GTAGAAGTCC CATCTTCAGG	
7601			GTGCGCAGTA CACGCGTCAT	
7651		·	ACCTGACGAC TGGACTGCTG	
7701			TGGCGGGTTT ACCGCCCAAA	
7751			CTGGCTGCTC GACCGACGAG	
7801				GCGCGGCGGT CGCGCCGCCA
7851				TGGTCTGGAG ACCAGACCTC
7901	-			ACCTCGCATA TGGAGCGTAT
7951	=			TTCCAGGGGC AAGGTCCCCG

8001			GGCTTGCAAG CCGAACGTTC		
8051			GGCGGTGGGC CCGCCACCCG		
8101			GCGGGCGAGC CGCCCGCTCG		
8151			GGCAGGGGCA CCGTCCCCGT		
8201			TAGGTTGCTG ATCCAACGAC		
8251			GCCTCTGCGT CGGAGACGCA		
8301			TCGACAGAAT AGCTGTCTTA		
8351			CTGCACGTCT GACGTGCAGA		
8401			CGATCTCTTC GCTAGAGAAG		
8451			GCGAGGTCGT CGCTCCAGCA		
8501			TCCCTCGTTC AGGGAGCAAG		
8551			CGCGCATGAC GCGCGTACTG		
8601	CCACGTGCCG	GGCGAAGACG		GCAGGCGCTG	AAAGAGGTAG
8651	TTGAGGGTGG	TGGCGGTGTG	TTCTGCCACG AAGACGGTGC	AAGAAGTACA	TAACCCAGCG
8701	TCGCAACGTG	GATTCGTTGA		GGCCTCAAGG	CGCTCCATGG
8751	CCTCGTAGAA	GTCCACGGCG	AAGTTGAAAA	ACTGGGAGTT	GCGCGCCGAC
	GGAGCATCTT	CAGGTGCCGC	TTCAACTTTT	TGACCCTCAA	CGCGCGGCTG

8801		CCTCCTCCAG GGAGGAGGTC		
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8951		GGCGACGACG CCGCTGCTGC		
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9151		TGTGTAGGTA ACACATCCAT		
9201		ATCGGAAAAC TAGCCTTTTG		
9251		GGCTGAGCAC CCGACTCGTG		
9301		GCGGAGGTGC CGCCTCCACG		
9351		GATGGTCGAC CTACCAGCTG		
9401	TGAATGCGCA ACTTACGCGT	GGCGGTCGGC CCGCCAGCCG		
9451	CAGGTCTTTG GTCCAGAAAC			ACTTCTTCTT TGAAGAAGAA
9501	CTCCTTCCTC GAGGAAGGAG	TTGTCCTGCA AACAGGACGT		
9551				TGACCCCGAA ACTGGGGCTT

9601	CCCCCTCATC	GGCTGAAGCA	GGGCTAGGTC	GGCGACAACG	CGCTCGGCTA
J001			CCCGATCCAG		
	CGGGGAGTAG	CCGACTTCGT	CCCGATCCAG	CCGCIGIIGC	GCGAGCCGAI
9651	ATATGGCCTG	CTGCACCTGC	GTGAGGGTAG	ACTGGAAGTC	ATCCATGTCC
	TATACCGGAC	GACGTGGACG	CACTCCCATC	TGACCTTCAG	TAGGTACAGG
	1111110000110	011001001100	<b></b>		
				c=c=++c=cc	3.0mm000003.m
9701			CGTGTTGATG		AGTTGGCCAT
	TGTTTCGCCA	CCATACGCGG	GCACAACTAC	CACATTCACG	TCAACCGGTA
0751	*********	mm > > C C C m C m	GGTGACCCGG	СТСССАСАСС	TCGGTGTACC
9751					
	TTGCCTGGTC	AATTGCCAGA	CCACTGGGCC	GACGCTCTCG	AGCCACATGG
9801	TGAGACGCGA	GTAAGCCCTC	GAGTCAAATA	CGTAGTCGTT	GCAAGTCCGC
<b>500</b> -			CTCAGTTTAT		
	ACTCTGCGCT	CATTCGGGAG	CICAGIIIAI	GCAICAGCAA	CGIICAGGCG
9851	ACCAGGTACT	GGTATCCCAC	CAAAAAGTGC	GGCGGCGGCT	GGCGGTAGAG
	тестссатеа	CCATAGGGTG	GTTTTTCACĞ	CCGCCGCCGA	CCGCCATCTC
				~~~~~~~~~	maaa.m
9901			GGGCTCCGGG		
	CCCGGTCGCA	TCCCACCGGC	CCCGAGGCCC	CCGCTCTAGA	AGGTTGTATT
9951	ССССАТСАТА	тссстасатс	TACCTGGACA	TCCAGGTGAT	GCCGGCGGCG
<i>99</i> 51			ATGGACCTGT		
	CCGCTACTAT	AGGCATCTAC	ATGGACCTGT	AGGICCACIA	CGGCCGCCGC
10001	GTGGTGGAGG	CGCGCGGAAA	GTCGCGGACG	CGGTTCCAGA	TGTTGCGCAG
	CACCACCTCC	GCGCGCCTTT	CAGCGCCTGC	GCCAAGGTCT	ACAACGCGTC
	011001100100	000000			
				a=aaaaaa	**************************************
10051			TCGGGACGCT		
	GCCGTTTTTC	ACGAGGTACC	AGCCCTGCGA	GACCGGCCAG	TCCGCGCGCG
•					
10101	አ አምሮርሞሞር አ ሮ	CCTCTAGACC	GTGCAAAAGG	ል ሮልርርርጥርጥል	AGCGGGCACT
10101					
	TTAGCAACTG	CGAGATCTGG	CACGTTTTCC	TCTCGGACAT	TCGCCCGTGA
10151	CTTCCGTGGT	CTGGTGGATA	AATTCGCAAG	GGTATCATGG	CGGACGACCG
			TTAAGCGTTC		
	GAAGGCACCA	GACCACCIAI	11111000110	00	
10201					CGGTTACCGC
	CCCAAGCTCG	GGGCATAGGC	CGGCAGGCGG	CACTAGGTAC	GCCAATGGCG
10251	CCCCCMCMCC	A A CCC A CCMC	ጥሮሮሮኔ ሮሮ ሞሮኔ	CACAACGGGG	GAGTGCTCCT
TOZOT					
	GGCGCACAGC	TTGGGTCCAC	ACGCTGCAGT	CTGTTGCCCC	CTCACGAGGA
10301	TTTGGCTTCC	TTCCAGGCGC	GGCGGCTGCT	GCGCTAGCTT	TTTTGGCCAC
					AAAACCGGTG
	DUMMUUJAMA	MAGICCACA	CCGCCGACGA	CGCGAICGAA	
				_	
10351					GCATTAAGTG
	ACCGGCGCGC	GTCGCATTCG	CCAATCCGAC	CTTTCGCTTT	CGTAATTCAC

10401			CCAAGGGTTG GGTTCCCAAC	
10451			TGCGGCGAAC ACGCCGCTTG	
10501			TTCCTCCGGA AAGGAGGCCT	
10551			CGGTGCTGCG GCCACGACGC	
10601		AGCAGCGGCA TCGTCGCCGT	CAGCGGCAGA GTCGCCGTCT	
10651			GGCGACATCC CCGCTGTAGG	
10701			CCGCGGCCCG	
10751	-		CGGCTAGGAG GCCGATCCTC	
10801			TGATACGCGT ACTATGCGCA	
10851		GAACCTGTTT CTTGGACAAA	AGGGAGAGGA TCCCTCTCCT	GCCCGAGGAG CGGGCTCCTC
10901		GAAAGTTCCA CTTTCAAGGT	 GAGCTGCGGC CTCGACGCCG	ATGGCCTGAA TACCGGACTT
10951			TGAGCCCGAC ACTCGGGCTG	
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11051	TACGAGCAGA ATGCTCGTCT		TTTCAAAAAA AAAGTTTTTT	
11101	CCACGTGCGT GGTGCACGCA		GGTGGCTATA CCACCGATAT	
11151	ATCTGTGGGA TAGACACCCT			TAGCAAGCCG ATCGTTCGGC

11,201			CACAGCAGGG GTGTCGTCCC	
11251			GCCCGAGGGC CGGGCTCCCG	
11301			TGGTGCAGGA ACCACGTCCT	
11351			TATTCCATGC ATAAGGTACG	
11401	-		CCCTTACGTT GGGAATGCAA	
11451			GCATGGCGCT CGTACCGCGA	
11501			AACGAGCGCA TTGCTCGCGT	
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11751	=		ACGAGGACGA TGCTCCTGCT	
11801			TTTCTGATCA AAAGACTAGT	GATGATGCAA CTACTACGTT
11851			CTGCAGAGCC GACGTCTCGG	
			CATGGACCGC GTACCTGGCG	
11951			AGCAGCCGCA TCGTCGGCGT	GGCCAACCGG CCGGTTGGCC

12001		TTCTGGAAGC			
		AAGACCTTCG			
12051		CTGGCGATCG			
	GCTCTTCCAC	GACCGCTAGC	ATTTGCGCGA	CCGGCTTTTG	TCCCGGTAGG
12101	GGCCCGACGA	GGCCGGCCTG	GTCTACGACG	${\tt CGCTGCTTCA}$	GCGCGTGGCT
	CCGGGCTGCT	CCGGCCGGAC	CAGATGCTGC	GCGACGAAGT	CGCGCACCGA
12151	CGTTACAACA	GCGGCAACGT	GCAGACCAAC	CTGGACCGGC	TGGTGGGGGA
	GCAATGTTGT	CGCCGTTGCA	CGTCTGGTTG	GACCTGGCCG	ACCACCCCT
12201	TGTGCGCGAG	GCCGTGGCGC	AGCGTGAGCG	CGCGCAGCAG	CAGGGCAACC
	ACACGCGCTC	CGGCACCGCG	TCGCACTCGC	GCGCGTCGTC	GTCCCGTTGG
12251	TGGGCTCCAT	GGTTGCACTA	AACGCCTTCC	TGAGTACACA	GCCCGCCAAC
	ACCCGAGGTA	CCAACGTGAT	TTGCGGAAGG	ACTCATGTGT	CGGGCGGTTG
12301	GTGCCGCGG	GACAGGAGGA	CTACACCAAC	TTTGTGAGCG	CACTGCGGCT
	CACGGCGCCC	CTGTCCTCCT	GATGTGGTTG	AAACACTCGC	GTGACGCCGA
12351	AATGGTGACT	GAGACACCGC			
		010101001			CCCGGTCTGA
12401		GACCAGTAGA	CAAGGCCTGC		
		CTGGTCATCT	GTTCCGGACG		GGACTCGGTC
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		TGAACGTCCC			
12501		GTGTCTAGCT			
		CACAGATCGA			
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		CGGGAAGTGC		•	,
12601					AGGCGCATGT
	·				TCCGCGTACA
12651					GCGCTGGGGC
					CGCGACCCCG
12701					GCTGACCAAC
					CGACTGGTTG
12751	=				AGGAGGAGCG
	GCCGCCGTCT	TCTAGGGGAG	CAACGTGTCA	AATTTGTCGC	TCCTCCTCGC

12801		CCTTAACCTG GGAATTGGAC	
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13451			TCTGGTGTGG AGACCACACC
13501			TGGGAGGGAG ACCCTCCCTC
13551			ATGTTTTAAA TACAAAATTT

13601	AAAAAAAAA TTTTTTTTT		CTCACCAAGG GAGTGGTTCC	
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13751			 CTCCCTGGA GAGGGGACCT	
13801			 GGGAGAAACA CCCTCTTTGT	
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13951		CGGTCATTCA GCCAGTAAGT	 TACAGCCCGG ATGTCGGGCC	
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14151			GTTCACGCTG CAAGTGCGAC	
14201	ACTACTCCGA TGATGAGGCT		TGAACAACGC ACTTGTTGCG	
14251	CACTACTTGA GTGATGAACT		GTTCTGGAAA CAAGACCTTT	
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14351	GTCTTGTCAT CAGAACAGTA		AAGCCTTCCA TTCGGAAGGT	

14401			ACCCACAGCC TGGGTGTCGG	
14451			CCAGGAGGGC GGTCCTCCCG	
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14801		 	AGGACAGCAA TCCTGTCGTT	
14851			ACCCAGTACC TGGGTCATGG	
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15001			TTCCGCTCCA AAGGCGAGGT	
15051	•		GTTGCCCGTG CAACGGGCAC	
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15151		 	GAGAACCAGA CTCTTGGTCT	

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15601	 ACTACACGCC TGATGTGCGG		
15651	ACCGTGGTGC TGGCACCACG		
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15801			ATTGTCACTG TAACAGTGAC
15851			CGCGGCCATT GCGCCGGTAA
15901			TGCGCGACTC ACGCGCTGAG
15951			CGCAACTAGA GCGTTGATCT

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16051		ACGAAGCTAT TGCTTCGATA	AAAATCAAAG TTTTAGTTTC	
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16201			CTGCACGCTA GACGTGCGAT	
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16351		=	GACCTGCTTG CTGGACGAAC	
16401			GCGGCATAAG CGCCGTATTC	
16451			CTAGCCTAAA GATCGGATTT	
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16551			CGTGCAGCTG GCACGTCGAC	
16601	AGCGCCAGCG TCGCGGTCGC		AAATGACCGT TTTACTGGCA	
16651	CTGGAGCCCG GACCTCGGGC		AAGCAGGTGG TTCGTCCACC	
16701	GGGCGTGCAG CCCGCACGTC		CACTACCAGT GTGATGGTCA	
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16801		 	GCTGCGGCCG CGACGCCGGC	
16851		 	GTTTCGCGTT CAAAGCGCAA	
16901		 	CCGCCAGCGC GGCGGTCGCG	
16951		 	ACCCCCGGCT TGGGGGCCGA	
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17051		 	CCGTGCTGGC GGCACGACCG	
17101	GTGCGCAGGG CACGCGTCCC		ACCCTGGTGC TGGGACCACG	
17151		 	GGTCTTTGTG CCAGAAACAC	
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17401	GTGCCCGGAA CACGGGCCTT		GCGCAGAGAC CGCGTCTCTG	
17451	AACAAGTTGC TTGTTCAACG		AAAGTCTGGA TTTCAGACCT	
17501	CGCTTGGTCC GCGAACCAGG		GAAGACATCA CTTCTGTAGT	
17551	TCTGGCCCCG AGACCGGGGC		CATGGGAAAC GTACCCTTTG	

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	AGCCGTGGTC	GTTATACTCG	CCACCGCGGA	AGTCGACCCC	GAGCGACACC
	Moccordore	01111110100	00.100000		
48654	3.000003.mm3	AAAATTTCGG		***********	CCACCAACCC
17651					
	TCGCCGTAAT	TTTTAAAGCC	AAGGTGGCAA	TTCTTGATAC	CGTCGTTCCG
17701	CTGGAACAGC	AGCACAGGCC	AGATGCTGAG	GGATAAGTTG	AAAGAGCAAA
	GACCTTGTCG	TCGTGTCCGG	TCTACGACTC	CCTATTCAAC	TTTCTCGTTT
17751	አመመመርር አአር አ	AAAGGTGGTA	СУФССССТСС	ССФСФСССАФ	тассесестс
1//31		TTTCCACCAT			
	TAAAGGTTGT	TTTCCACCAT	CTACCGGACC	GGAGACCGIA	AICGCCCAC
17801	-	CCAACCAGGC			
	CACCTGGACC	GGTTGGTCCG	TCACGTTTTA	TTCTAATTGT	CATTCGAACT
17851	TCCCCGCCCT	CCCGTAGAGG	AGCCTCCACC	GGCCGTGGAG	ACAGTGTCTC
		GGGCATCTCC			
	AGGGGGGA	GGGCATCICC	1000100100	00000110010	- 0 - 0 - 0 - 1 - 0 - 1 - 0
				0001010001	3.03.3.3.0m0m0
17901		TGGCGAAAAG			
	GTCTCCCCGC	ACCGCTTTTC	GCAGGCGCGG	GGCTGTCCCT	TCTTTGAGAC
17951	GTGACGCAAA	TAGACGAGCC	TCCCTCGTAC	GAGGAGGCAC	TAAAGCAAGG
	CACTGCGTTT	ATCTGCTCGG	AGGGAGCATG	CTCCTCCGTG	ATTTCGTTCC
		-			
18001	CCTCCCCACC	ACCCGTCCCA	ТСССССССАТ	СССТАССССА	стестесесс
10001		TGGGCAGGGT			
	GGACGGGTGG	TGGGCAGGGI	AGCGCGGGIA	CCGAIGGCCI	CACGACCCGG
18051		CGTAACGCTG			
	TCGTGTGTGG	GCATTGCGAC	CTGGACGGAG	GGGGGCGGCT	GTGGGTCGTC
18101	AAACCTGTGC	TGCCAGGCCC	GACCGCCGTT	GTTGTAACCC	GTCCTAGCCG
		ACGGTCCGGG			
				•	
10151	accompage and	ceccecece	CC A CC CC CCCCC	CCCXMCCMMC	CCCCCCCTAC
18151					
	GCGCAGGGAC	GCGGCGCGC	GGTCGCCAGG	CGCTAGCAAC	GCCGGGCATC
18201	CCAGTGGCAA	CTGGCAAAGC	ACACTGAACA	GCATCGTGGG	TCTGGGGGTG
	GGTCACCGTT	GACCGTTTCG	TGTGACTTGT	CGTAGCACCC	AGACCCCCAC
18251	CAATCCCTGA	AGCGCCGACG	ATGCTTCTGA	TAGCTAACGT	GTCGTATGTG
10101		TCGCGGCTGC			
	GIINGGGACI	1000000100	INCUMBACI	COMI IOCA	
					AGCCGCCGCG
•	ACAGTACATA	CGCAGGTACA	GCGGCGGTCT	CCTCGACGAC	TCGGCGGCGC
18351	CGCCCGCTTT	CCAAGATGGC	TACCCCTTCG	ATGATGCCGC	AGTGGTCTTA
	GCGGGCGAAA	GGTTCTACCG	ATGGGGAAGC	TACTACGGCG	TCACCAGAAT
	·				

	•				
18401	CATGCACATC	TCGGGCCAGG	ACGCCTCGGA	GTACCTGAGC	CCCGGGCTGG
10101				CATGGACTCG	
	GTACGTGTAG	AGCCCGGICC	IGCGGAGCCI	CAIGGACICG	0000001100
18451				TCAGCCTGAA	TAACAAGTTT
	ACGTCAAACG	GGCGCGGTGG	CTCTGCATGA	AGTCGGACTT	ATTGTTCAAA
					•
18501	AGAAACCCCA	СССТССССССС	TACGCACGAC	GTGACCACAG	ACCGGTCCCA
10301		GCCACCGCGG			TGGCCAGGGT
	TCTTTGGGGT	GCCACCGCGG	AIGCGIGCIG	CACIGGIGIC	100001
					1 CTCCCT1 CT
18551		CTGCGGTTCA			ACTGCGTACT
*	CGCAAACTGC	GACGCCAAGT	AGGGACACCT	GGCACTCCTA	TGACGCATGA
18601	CGTACAAGGC	GCGGTTCACC	CTAGCTGTGG	GTGATAACCG	TGTGCTGGAC
10001				CACTATTGGC	
	GCAIGIICCG	CGCCAAGIGG	GAICGACACC	C11C 1111 1 C C C	
					~~~~~~~~~~
18651		<del>-</del>		GTGCTGGACA	
	TACCGAAGGT	GCATGAAACT	GTAGGCGCCG	CACGACCTGT	CCCCGGGATG
18701	TTTTAAGCCC	TACTCTGGCA	CTGCCTACAA	CGCCCTGGCT	CCCAAGGGTG
_,0,,0_				GCGGGACCGA	GGGTTCCCAC
	MMMIICGGG	ni dhoneco i	011000111011	00000	
			aa aa=a	ama amaamam	maxxxxx
18751		TTGCGAATGG			TGAAATAAAC
	GGGGTTTAGG	AACGCTTACC	CTACTTCGAC	GATGACGAGA	ACTTTATTTG
18801	CTAGAAGAAG	AGGACGATGA	CAACGAAGAC	GAAGTAGACG	AGCAAGCTGA
		TCCTGCTACT			TCGTTCGACT
	01110110110	10010011101		00	
40054	661661111	3 CMC3 CCM3 M	TTGGGCAGGC		GGTATAAATA
18851					
	CGTCGTTTTT	TGAGTGCATA	AACCCGTCCG	CGGAATAAGA	CCATATTTAT
					•
18901	TTACAAAGGA	GGGTATTCAA	ATAGGTGTCG	AAGGTCAAAC	ACCTAAATAT
	AATGTTTCCT	CCCATAAGTT	TATCCACAGC	TTCCAGTTTG	TGGATTTATA
		<b>~~~</b>			
10051	000010111	C 3 DDDC 3 3 CC	mc a a como a a	ATAGGAGAAT	<b>ርጥር አርጥርርጥ</b> አ
18951					
	CGGCTATTTT	GTAAAGTTGG	ACTTGGAGTT	TATCCTCTTA	GAGTCACCAT
19001	CGAAACAGAA	ATTAATCATG	CAGCTGGGAG	AGTCCTAAAA	AAGACTACCC
	GCTTTGTCTT	TAATTAGTAC	GTCGACCCTC	TCAGGATTTT	TTCTGATGGG
19051	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	አ <i>ጥርጥ</i> ምአ <i>ሮርር</i> ጥ	ጥሮ አጥአጥሮሮ አ አ	AACCCACAAA	тсаааатсса
19031					
	GTTACTTTGG	TACAATGCCA	AGTATACGTT	TTGGGTGTTT	ACTITIACCT
19101				GGAAAGCTAG	
	CCCGTTCCGT	AAGAACATTT	CGTTGTTTTA	CCTTTCGATC	TTTCAGTTCA
10151	ССАДАТССАД	ጥጥጥጥጥርጥር ል ል	СФАСФСАССС	AGCCGCAGGC	AATGGTGATA
TATAT				TCGGCGTCCG	
	CCTTTACGTT	AAAAAGAGTT	GATGACTCCG	1000001000	TINCCACIAI

19201		TAAAGTGGTA ATTTCACCAT		AAGATGTAGA TTCTACATCT	
19251	CCAGACACTC GGTCTGTGAG	ATATTTCTTA TATAAAGAAT	CATGCCCACT GTACGGGTGA		GTAACTCACG CATTGAGTGC
19301		GGCCAACAAT CCGGTTGTTA		CAGGCCTAAT GTCCGGATTA	
19351		TTTTATTGGT AAAATAACCA		ACAACAGCAC TGTTGTCGTG	GGGTAATATG CCCATTATAC
19401		CGGGCCAAGC GCCCGGTTCG	ATCGCAGTTG TAGCGTCAAC	AATGCTGTTG TTACGACAAC	
19451	AGACAGAAAC TCTGTCTTTG	ACAGAGCTTT TGTCTCGAAA		TTTGCTTGAT AAACGAACTA	TCCATTGGTG AGGTAACCAC
19501		GTACTTTTCT CATGAAAAGA		AGGCTGTTGA TCCGACAACT	
19551	CCAGATGTTA GGTCTACAAT		AAATCATGGA TTTAGTACCT	ACTGAAGATG TGACTTCTAC	AACTTCCAAA TTGAAGGTTT
19601		CCACTGGGAG GGTGACCCTC	GTGTGATTAA CACACTAATT	TACAGAGACT ATGTCTCTGA	CTTACCAAGG GAATGGTTCC
19651		AACAGGTCAG TTGTCCAGTC	GAAAATGGAT CTTTTACCTA		TGCTACAGAA ACGATGTCTT
19701		AAAATGAAAT TTTTACTTTA	AAGAGTTGGA TTCTCAACCT		CCATGGAAAT GGTACCTTTA
19751				CCTGTACTCC GGACATGAGG	
19801				CTTCCAACGT GAAGGTTGCA	
19851			<del>-</del>	AAGCGAGTGG TTCGCTCACC	
19901				ACGCTGGTCC TGCGACCAGG	
19951				GCAATGCTGG CGTTACGACC	

					- a- mag-com
20001				GTGCCCTTCC	
	GCGAGTTACA	ACGACCCGTT	ACCAGCGATA	CACGGGAAGG	TGTAGGTCCA
20051	СССТСАСААС	<b>ጥጥርጥጥጥርር</b> ርር እ	ጥጥልልልልልሮሮጥ	CCTTCTCCTG	CCGGGCTCAT
20031				GGAAGAGGAC	
	CGGAGICIIC	MGMMCGGI	12111110011	00.11.01.001.0	
20101	ACACCTACGA	GTGGAACTTC	AGGAAGGATG	TTAACATGGT	TCTGCAGAGC
				AATTGTACCA	
20151	TCCCTAGGAA	ATGACCTAAG	GGTTGACGGA	GCCAGCATTA	AGTTTGATAG
	AGGGATCCTT	TACTGGATTC	CCAACTGCCT	CGGTCGTAAT	TCAAACTATC
20201				GGCCCACAAC	
	GTAAACGGAA	ATGCGGTGGA	AGAAGGGGTA	CCGGGTGTTG	TGGCGGAGGT
		aaaa.		1 GG1 GG1 GMG	GMMM3 3 GG 3 G
20251				ACGACCAGTC TGCTGGTCAG	
	GCGAACTCCG	GTACGAATCT	TIGCIGIGGI	TGCTGGTCAG	GAAATIGCIG
20301	<b>ጥ</b> ልጥርጥርጥርርር	СССССАВСАТ	GCTCTACCCT	ATACCCGCCA	ACGCTACCAA
20301				TATGGGCGGT	
20351	CGTGCCCATA	TCCATCCCCT	CCCGCAACTG	GGCGGCTTTC	CGCGGCTGGG
	GCACGGGTAT	AGGTAGGGGA	GGGCGTTGAC	CCGCCGAAAG	GCGCCGACCC
20401				CATCACTGGG	
	GGAAGTGCGC	GGAATTCTGA	TTCCTTTGGG	GTAGTGACCC	GAGCCCGATG
20451				CCCTACCTAG	· ·
	CTGGGAATAA	TGTGGATGAG	ACCGAGATAT	GGGATGGATC	TACCTTGGAA
20501	mma comoa a c	CACACCOMMA	3.C3.3.CC#CCC	CATTACCTTT	<b>CaC</b> かでかかでがな
20501	- · · · · · · · · · · · · · · · · · · ·			GTAATGGAAA	
	AAIGGAGIIG	GIGIGGAAAI	ICIICCACCG	GIMICOMII	C101101110110
20551	TCAGCTGGCC	TGGCAATGAC	CGCCTGCTTA	CCCCCAACGA	GTTTGAAATT
				GGGGGTTGCT	
20601	AAGCGCTCAG	TTGACGGGGA	GGGTTACAAC	GTTGCCCAGT	GTAACATGAC
	TTCGCGAGTC	AACTGCCCCT	CCCAATGTTG	CAACGGGTCA	CATTGTACTG
20651				TAACTATAAC	
	GTTTCTGACC	AAGGACCATG	TTTACGATCG	ATTGATATTG	TAACCGATGG
20701	* CCCCCCCCCC	mamaaaaaa	አርርመአርኣ አርር	ACCGCATGTA	<b>CTCCTTTCTTT</b>
<b>2</b> 0/01					GAGGAAGAAA
	ICCCGAAGAT	AIAGGGICIC	ICGAIGIICC	TOCCOLUCAL	OTTO OTTO THEM
20751	AGAAACTTCC	AGCCCATGAG	CCGTCAGGTG	GTGGATGATA	CTAAATACAA
				CACCTACTAT	

20801		CAGGTGGGCA GTCCACCCGT			
20851	TTGGCTACCT AACCGATGGA	TGCCCCCACC ACGGGGGTGG		GACAGGCCTA CTGTCCGGAT	
20901		CGCTTATAGG GCGAATATCC			
20951		TGCGATCGCA ACGCTAGCGT			TCCAGTAACT AGGTCATTGA
21001		GGGCGCACTC CCCGCGTGAG			
21051		ACGCGCTAGA TGCGCGATCT			
21101		CTTTATGTTT GAAATACAAA			GTCCGTGTGC CAGGCACACG
21151		CCGCGGCGTC GGCGCCGCAG		TGTACCTGCG ACATGGACGC	
21201		ACGCCACAAC TGCGGTGTTG	ATAAAGAAGC TATTTCTTCG	AAGCAACATC TTCGTTGTAG	AACAACAGCT TTGTTGTCGA
21251		GCTCCAGTGA CGAGGTCACT			
21301		CCATATTTTT GGTATAAAAA			
21351		ACACAAGCTC TGTGTTCGAG			
21401		GCGTACACTG CGCATGTGAC			CGCACTCAAA GCGTGAGTTT
21451					CGACTCAAGC GCTGAGTTCG
21501					CGCCATTGCT GCGGTAACGA
21551					AAAGCGTACA TTTCGCATGT

21601			GTGGACTATT		
	CCCCGGGTTG	AGCCGGCGGA	CACCTGATAA	GACGACGTAC	AAAGAGGTGC
21651			ACTCCCATGG		
	GGAAACGGTT	GACCGGGGTT	TGAGGGTACC	TAGTGTTGGG	GTGGTACTTG
21701			CTCCATGCTC		
	GAATAATGGC	CCCATGGGTT	GAGGTACGAG	TTGTCAGGGG	TCCATGTCGG
21751	CACCCTGCGT	CGCAACCAGG	AACAGCTCTA		
	GTGGGACGCA			GTCGAAGGAC	
21801			AGTGCGCAGA		
			TCACGCGTCT		
21851			AAAATAATGT		
			TTTTATTACA		
21901			ACACTCTCGG		
			TGTGAGAGCC		
21951			AAATCAAAGG		CGCATCGCTA
			TTTAGTTTCC		GCGTAGCGAT
22001			GTTGCGATAC		
			CAACGCTATG		
22051			GCGGCAGCTC		
			CGCCGTCGAG		
22101			GCGTTTAGCA		
			CGCAAATCGT		
22151	=		GCCCTGCGCG		
			CGGGACGCGC		
22201					CTGGCCAGCA
					GACCGGTCGT
22251					GTTGCTCAGG
					CAACGAGTCC
22301					GCGCGTGCCC
					CGCGCACGGG
22351					TGACCGTGCC
	TCCGAAACTC	AACGTGAGCG	TGGCATCACC	GTAGTTTTCC	ACTGGCACGG

22401			TAAAAGCCTT ATTTTCGGAA	
22451		 	AAGAACATGC TTCTTGTACG	
22501	<del>-</del>	 	GTCGTGCACG CAGCACGTGC	
22551		 	GGCCCACCG CCGGGGTGGC	
22601			GCGCGCTGCC CGCGCGACGG	
22651		 	ATTTATCATA TAAATAGTAT	
22701		 	CGCAGCGGTG GCGTCGCCAC	
22751		 	GTCACCTCTG CAGTGGAGAC	
22801		 	CGTCACAAAG GCAGTGTTTC	
22851			CCTCGTTCAG GGAGCAAGTC	
22901			GGCAGTAGTT CCGTCATCAA	
22951		 	CATCAGCGCG GTAGTCGCGC	
23001			GCACACTCAG CGTGTGAGTC	*
23051			TCTTCCTCTT AGAAGGAGAA	
23101			ATTCAGCCGC TAAGTCGGCG	
23151		 	CCGGTGGGTT GGCCACCCAA	

23201	ACCATTTGTA	GCGCCACATC	TTCTCTTTCT	TCCTCGCTGT	CCACGATTAC
		CGCGGTGTAG			
	IGGIAAACAI	CGCGGIGIAG	THIOTIOI ELOII	11001100011-011	0010011111
			~~~~~~~		
23251		GGCGGGCGCT			
	GAGACCACTA	CCGCCGCGA	GCCCGAACCC	TCTTCCCGCG	AAGAAAAAGA
23301	TCTTGGGCGC	AATGGCCAAA	TCCGCCGCCG	AGGTCGATGG	CCGCGGGCTG
	_	TTACCGGTTT			
	AGAACCCGCG	IIACCGGIII	Modeocccc	100110011100	
				a. amammaam	GGMGGMGGGGA
23351		GCACCAGCGC			
	CCACACGCGC	CGTGGTCGCG	CAGAACACTA	CTCAGAAGGA	GCAGGAGCCT
23401	CTCGATACGC	CGCCTCATCC	GCTTTTTTGG	GGGCGCCCGG	GGAGGCGGCG
		GCGGAGTAGG			
	GAGCIAIGCG	GCGGHG1HGG	COLLEGE		••••
				maammaaaaa	* COMOCOCO
23451		CGGGGACGAC			
	CGCTGCCCCT	GCCCCTGCTG	TGCAGGAGGT	ACCAACCCCC	TGCAGCGCGG
23501	GCACCGCGTC	CGCGCTCGGG	GGTGGTTTCG	CGCTGCTCCT	CTTCCCGACT
	ССТСССССАС	GCGCGAGCCC	CCACCAAAGC	GCGACGAGGA	GAAGGGCTGA
	00100000				
00554		mmcmccma ma	000303333	~~m~~m~~~~	TO A CTCC A CA
23551		TTCTCCTATA			
	CCGGTAAAGG	AAGAGGATAT	CCGTCTTTT	CTAGTACCTC	AGTCAGCTCT
23601	AGAAGGACAG	CCTAACCGCC	CCCTCTGAGT	TCGCCACCAC	CGCCTCCACC
•	TCTTCCTGTC	GGATTGGCGG	GGGAGACTCA	AGCGGTGGTG	GCGGAGGTGG
		•••••			
23651	O A MOCOCOCO A	ACGCGCCTAC	CACCMMCCCC	CTCCACCCAC	ССССССТТСА
7302T					
	CTACGGCGGT	TGCGCGGATG	GTGGAAGGGG	CAGCTCCGTG	GGGGCGAACI
23701	GGAGGAGGAA	GTGATTATCG	AGCAGGACCC	AGGTTTTGTA	AGCGAAGACG
	CCTCCTCCTT	CACTAATAGC	TCGTCCTGGG	TCCAAAACAT	TCGCTTCTGC
23751	ACGAGGACCG	CTCAGTACCA	ACAGAGGATA	AAAAGCAAGA	CCAGGACAAC
23/31		GAGTCATGGT			
	TGCTCCTGGC	GAGTCATGGT	TGICICCIAI	IIIICGIICI	GGICCIGIIG
23801					GGCATGGCGA
	CGTCTCCGTT	TGCTCCTTGT	TCAGCCCGCC	CCCCTGCTTT	CCGTACCGCT
23851	СТАССТАСАТ	GTGGGAGACG	ACGTGCTGTT	GAAGCATCTG	CAGCGCCAGT
25051					GTCGCGGTCA
	GAIGGAICIA	CACCUICIGC	LUCACUACAA	CIICGIRONC	
					~~~~~
23901					GCCCTCGCC
	CGCGGTAATA	GACGCTGCGC	AACGTTCTCG	CGTCGCTACA	CGGGGAGCGG
23951	ATAGCGGATG	TCAGCCTTGC	CTACGAACGC	CACCTATTCT	CACCGCGCGT
					GTGGCGCGCA
	TWICACCINC	DJANDEJIEN	CALGULIGUG	~	

24001	ACCCCCCAAA	CGCCAAGAAA	ACGGCACATG	CGAGCCCAAC	CCGCGCCTCA
			TGCCGTGTAC		
	100000111	GCGGIICIII	10000101110	0010000110	
				maammaaaa a	CM2 MC2 C2 MC
24051			GTGCCAGAGG		
	TGAAGATGGG	GCATAAACGG	CACGGTCTCC	ACGAACGGTG	GATAGTGTAG
24101	TTTTTCCAAA	ACTGCAAGAT	ACCCCTATCC	TGCCGTGCCA	ACCGCAGCCG
<del>-</del>			TGGGGATAGG		
	WWWGGIII	IGACGIICIA	10000111100	110000110001	-0000-000
				000m0m01m1	CCMC3 M3 MCC
24151			TGCGGCAGGG		
	TCGCCTGTTC	GTCGACCGGA	ACGCCGTCCC	GCGACAGTAT	GGACTATAGC
24201	CCTCGCTCAA	CGAAGTGCCA	AAAATCTTTG	AGGGTCTTGG	ACGCGACGAG
	GGAGCGAGTT	GCTTCACGGT	TTTTAGAAAC	TCCCAGAACC	TGCGCTGCTC
04054		G3.3.3.GGGMGM	GCAACAGGAA	******	አመር አ አ አርመር አ
24251					
	TTCGCGCGCC	GTTTGCGAGA	CGTTGTCCTT	TTGTCGCTTT	TACTTTCAGT
24301	CTCTGGAGTG	TTGGTGGAAC	TCGAGGGTGA	CAACGCGCGC	CTAGCCGTAC
	GAGACCTCAC	AACCACCTTG	AGCTCCCACT	GTTGCGCGCG	GATCGGCATG
24351	TA A A A CCCA C	СУФССУССФС	ACCCACTTTG	CCTACCCGCC	<b>Δ</b> C T T A A C C T A
24331			TGGGTGAAAC		
	ATTTTGCGTC	GTAGCTCCAG	TGGGTGAAAC	GGATGGGCCG	IGANIIGGAI
	•				
24401			AGTCATGAGT		
	GGGGGGTTCC	<b>AGTACTCGTG</b>	TCAGTACTCA	CTCGACTAGC	ACGCGGCACG
24451	GCAGCCCCTG	GAGAGGGATG	CAAATTTGCA	AGAACAAACA	GAGGAGGCC
24431			GTTTAAACGT		
	CGICGGGGAC	CICICCCIAC	GIIIMMCGI	1011011101	010010000
24501			CAGCTAGCGC		
	ATGGGCGTCA	ACCGCTGCTC	GTCGATCGCG	CGACCGAAGT	TTGCGCGCTC
24551	CCTGCCGACT	TGGAGGAGCG	ACGCAAACTA	ATGATGGCCG	CAGTGCTCGT
	GGACGGCTGA	ACCTCCTCGC	TGCGTTTGAT	TACTACCGGC	GTCACGAGCA
	001100001011				
04604	m> 000m00> 0	CBBC3 CBCC3	maaa aaaamm		CCGGAGATGC
24601					
	ATGGCACCTC	GAACTCACGT	ACGTCGCCAA	GAAACGACTG	GGCCTCTACG
24651	AGCGCAAGCT	AGAGGAAACA	TTGCACTACA	CCTTTCGACA	GGGCTACGTA
	TCGCGTTCGA	TCTCCTTTGT	AACGTGATGT	GGAAAGCTGT	CCCGATGCAT
		- · · · <del></del>		_	
24701	CCCCACCCC	CCAACAMOMO	СУУССТССУС	ርጥርጥርር እ አ ር ር	TGGTCTCCTA
24/UI					
	GCGGTCCGGA	CGTTCTAGAG	GTTGCACCTC	GAGACGTTGG	ACCAGAGGAT
24751					CTTCATTCCA
	GGAACCTTAA	AACGTGCTTT	TGGCGGAACC	CGTTTTGCAC	GAAGTAAGGT

			*		
24801				TCCGCGACTG AGGCGCTGAC	
24851				GGCGTTTGGC CCGCAAACCG	<del>-</del>
24901				ACTGCTAAAG TGACGATTTC	
24951			·	CCGTGGCCGC GGCACCGGCG	
25001				ACCCTGCAAC TGGGACGTTG	
25051				CTTTAGGAAC GAAATCCTTG	
25101	AGCGCTCAGG	AATCTTGCCC	GCCACCTGCT	GTGCACTTCC CACGTGAAGG	TAGCGACTTT
25151	GTGCCCATTA	AGTACCGCGA	ATGCCCTCCG	CCGCTTTGGG	GCCACTGCTA
25201	CCTTCTGCAG	CTAGCCAACT	ACCTTGCCTA	CCACTCTGAC	ATAATGGAAG
25251	ACGTGAGCGG	TGACGGTCTA	CTGGAGTGTC	GGTGAGACTG ACTGTCGCTG	CAACCTATGC
25301	ACCCCGCACC	GCTCCCTGGT	TTGCAATTCG	TGACAGCGAC CAGCTGCTTA	ACGAAAGTCA
25351				GTCGACGAAT CTCGCCTGAC	
25401				GAGCGGACTG TGTGGACGTC	
25451				ACACCTGCAG CACGAGATTA	
	GCGTTTAAAC	ATGGACTCCT	GATGGTGCGG	GTGCTCTAAT	CCAAGATGCT
	TCTGGTTAGG	GCGGGCGGAT	TACGCCTCGA	TACCGCCTGC ATGGCGGACG	CAGTAATGGG
25551				TCAACAAAGC AGTTGTTTCG	

25601		GAAAGGGACG CTTTCCCTGC		
25651		CCAATCCCCC GGTTAGGGGG		 
25701		TTCCCAGGAT AAGGGTCCTA		 
25751		GACGAGGAGG CTGCTCCTCC		 
25801		GGAGGAGGAC CCTCCTCCTG		
25851		AGGTCGAAGA TCCAGCTTCT		 
25901		TCGCCGGCGC AGCGGCCGCG		
25951		CGCTCCTCAG GCGAGGAGTC		
26001		GGGACACCAC CCCTGTGGTG	•	
26051		GCCCAAGAGC CGGGTTCTCG		
26101		GAACGCCATA CTTGCGGTAT		
26151		CCCGCCGCTT GGGCGGCGAA		 
26201	CCGTAACATC GGCATTGTAG	CTGCATTACT GACGTAATGA		
26251	GCGGCAGCGG CGCCGTCGCC	CAGCAACAGC GTCGTTGTCG		
26301		CTGACAAAGC GACTGTTTCG		
26351	GAGGAGGAGC CTCCTCCTCG	GCTGCGTCTG CGACGCAGAC		

26401	 GGATTTTTCC CCTAAAAAGG		
26451	 CAAGAGCTGA GTTCTCGACT	АААТААААА ТТТТТТТТТ	
26501	CCTGTATCAC GGACATAGTG		
26551	 AGGCTCTCTT TCCGAGAGAA		
26601	 GCCCTTTCTC CGGGAAAGAG		
26651	CCCGGCGCCA GGGCCGCGGT		
26701	CGCCCTACAT GCGGGATGTA		
26751	GCCCAAGACT CGGGTTCTGA		
26801	GATATCCCGG CTATAGGGCC		
26851	 AACAGGCGGC TTGTCCGCCG		
26901	TGGCCCGCTG ACCGGGCGAC		CCCGCTCCCA GGGCGAGGGT
26951	ACTTCCCAGA TGAAGGGTCT		
27001			GGTCGCCCGG CCAGCGGGCC
27051			CAGCTCAACG GTCGAGTTGC
27101			GACATTTCAG CTGTAAAGTC
27151			CAATCCTAAC GTTAGGATTG

27201					GGAACTCTGC
	AGACGTCTGG	AGCAGGAGAC	TCGGCGCGAG	ACCTCCGTAA	CCTTGAGACG
27251			CCATCGGTCT		
	TTAAATAACT	CCTCAAACAC	GGTAGCCAGA	TGAAATTGGG	GAAGAGCCCT
27301			TCAATTTATT		
	GGAGGGCCGG	TGATAGGCCT	AGTTAAATAA	GGATTGAAAC	TGCGCCATTT
					• _
27351			ACTGAATGTT		
	CCTGAGCCGC	CTGCCGATGC	TGACTTACAA	TTCACCTCTC	CGTCTCGTTG
27401			CACTGTCGCC		
	ACGCGGACTT	TGTGGACCAG	GTGACAGCGG	CGGTGTTCAC	GAAACGGGCG
27451			CTTTGAATTG		
	CTGAGGCCAC	TCAAAACGAT	GAAACTTAAC	GGGCTCCTAG	TATAGCTCCC
27501			TTACCGCCCA		
	GGGCCGCGTG	CCGCAGGCCG	AATGGCGGGT	CCCTCTCGAA	CGGGCATCGG
27551			CGCCCCTGC		
	ACTAAGCCCT	CAAATGGGTC	GCGGGGGACG	ATCAACTCGC	CCTGTCCCCT
27601			TTGCAACTGT		
	GGGACACAAG	AGTGACACTA	AACGTTGACA	GGATTGGGAC	CTAATGTAGT
			•		
27651			GTGCTGAGTA		
	TCTAGAAACA	ACGGTAGAGA	CACGACTCAT	ATTATTTATG	TCTTTAATTT
27701			CCATCCTGTA		
	TATATGACCC	CGAGGATAGC	GGTAGGACAT	TTGCGGTGGC	AGAAGTGGGC
27751			CCTTACCTGG		
	GGGTTCGTTT	GGTTCCGCTT	GGAATGGACC	ATGAAAATTG	TAGAGAGGGA
27801					ACGAGAGAAC
	GACACTAAAT	GTTGTCAAAG	TTGGGTCTGC	CTCACTCAGA	TGCTCTCTTG
					macana acana
27851	CTCTCCGAGC				
	GAGAGGCTCG	AGTCGATGAG	GTAGTCTTTT	TTGTGGTGGG	AGGAATGGAC
27901					CTACCGCCTG
	GGCCCTTGCA	TGCTCACGCA	GTGGCCGGCG	ACGTGGTGTG	GATGGCGGAC
					mcmmm*
27951					TGTTTACCAG
	TGGCATTTGG	TCTGAAAAAG	GCCTGTCTGG	AGTTATTGAG	ACAAATGGTC

28001	 		GTATTAGGCC CATAATCCGG	
28051			ACTCTACGGG TGAGATGCCC	
28101			ATTCTCTGTC TAAGAGACAG	
28151			AAGGCTCGCC TTCCGAGCGG	
28201	 <del>-</del>	=	AACGCTGGGG TTGCGACCCC	
28251			TCACCCTTGC AGTGGGAACG	
28301	 		CCAGCCTGTA GGTCGGACAT	
28351	 		TATAAAATGC ATATTTTACG	- '
28401	 	=	AAATTGGCAA TTTAACCGTT	
28451			GAGTATAATG CTCATATTAC	
28501			TACTTTTCCA ATGAAAAGGT	
28551			AGTATAAGTT TCATATTCAA	
28601	 		TGCTGCACTG ACGACGTGAC	CTATGCTAAT GATACGATTA
28651			CTATATTAAA GATATAATTT	
28701			CTTAATTTAC GAATTAAATG	
28751	 		CTGCTTGCAA GACGAACGTT	AACAAATTCA TTGTTTAAGT

28801	АТТАТААТТА ТААТАТТААТ		
28851	CATTCCCCTG GTAAGGGGAC		ATATGCTCCA TATACGAGGT
28901	CTTGAAGTCA GAACTTCAGT		
28951	TCCCGCGGAT AGGGCGCCTA		
29001	GACCAACACA CTGGTTGTGT		
29051	 ATACACCCCA TATGTGGGGT		 
29101	 TGGTGGTTCT ACCACCAAGA	-	TGCCTTATTA ACGGAATAAT
29151	 CATCTGCTGC GTAGACGACG		 ACCACCCATC TGGTGGGTAG
29201	 TCATTGTGCT AGTAACACGA		 
29251	 AAACACATGT TTTGTGTACA		
29301	 CGAGTTTTTA GCTCAAAAAT		
29351	ATTGGCTGCG TAACCGACGC		
29401	 TCTATTTGCT AGATAAACGA		CGCTCATCTG GCGAGTAGAC
29451			GACTGGGTCT CTGACCCAGA
29501	TGCATATCTC ACGTATAGAG		GGACAGGACT CCTGTCCTGA
29551			TGTGACTTTT ACACTGAAAA

29601	CTGCTGATTA	TTTGCACCCT	ATCTGCGTTT	TGTTCCCCGA	CCTCCAAGCC
				ACAAGGGGCT	
	0110011011111				
29651	TC	አጥአጥ <b>ሮ</b> አጥርሮል	CATTCACTCC	TATATGGAAT	ATTCCAAGTT
29031			CTAAGTGAGC		TAAGGTTCAA
	AGTTTCTGTA	TATAGTACGT	CTAAGTGAGC	AIAIACCIIA	IMAGGIICM
			ammaaaa 1.0	CCMCCMMA MA	maaa amaama
29701				CCTGGTTATA	
	CGATGTTACT	TTTTTCGCTA	GAAAGGCTTC	GGACCAATAT	ACGTTAGTAG
29751				GCCCTAGCTA	
	AGACAATACC	ACAAGACGTC	ATGGTAGAAT	CGGGATCGAT	ATATAGGGAT
29801	CCTTGACATT	GGCTGGAACG	CAATAGATGC	CATGAACCAC	CCAACTTTCC
	GGAACTGTAA	CCGACCTTGC	GTTATCTACG	GTACTTGGTG	GGTTGAAAGG
29851	CCGCGCCCGC	TATGCTTCCA	CTGCAACAAG	TTGTTGCCGG	CGGCTTTGTC
	GGCGCGGGCG	ATACGAAGGT	GACGTTGTTC	AACAACGGCC	GCCGAAACAG
	000000000		<b>3.1.0 3.1.0 1.0</b>		
29901	CCAGCCAATC	ACCCTCCCCC	<b>ል</b> ሮሮሞሞሮሞሮሮሮ	ACCCCCACTG	AAATCAGCTA
29901	GGTCGGTTAG		TGGAAGAGGG		TTTAGTCGAT
	GGICGGIIAG	ICGGAGCGGG	1 GGAAGAGGG	10000010110	111101011
00054	COMMON A MOMA	1010010010	ATGACTGACA	CCCMACAMCM	AGAAATGGAC
29951	_				
	GAAATTAGAT	TGTCCTCCTC	TACTGACTGT	GGGATCTAGA	TCTTTACCTG
					a1 aaaaaaaa
30001				AGACGCAGGG	
	CCTTAATAAT	GTCTCGTCGC	GGACGATCTT	TCTGCGTCCC	GTCGCCGGCT
30051	GCAACAGCGC	ATGAATCAAG	AGCTCCAAGA	CATGGTTAAC	
	CGTTGTCGCG	TACTTAGTTC	TCGAGGTTCT	GTACCAATTG	AACGTGGTCA
30101	GCAAAAGGGG	TATCTTTTGT	CTCGTAAAGC	AGGCCAAAGT	CACCTACGAC
	CGTTTTCCCC	ATAGAAAACA	GAGCATTTCG	TCCGGTTTCA	GTGGATGCTG
30151	AGTAATACCA	CCGGACACCG	CCTTAGCTAC	AAGTTGCCAA	CCAAGCGTCA
				TTCAACGGTT	
30201	GAAATTGGTG	GTCATGGTGG	GAGAAAAGCC	CATTACCATA	ACTCAGCACT
30201					TGAGTCGTGA
	CITIMICCHE	Chomiconco	0101111000	011211-001111	
30251	CCCTACAAAC	CGAAGGCTGC	<b>አ</b> ጥጥሮ አርጥሮ አር	ርጥጥርጥር እ አርር	ACCTGAGGAT
30231					TGGACTCCTA
	GCCATCTTTG	GCTTCCGACG	IMAGIGAGIG	GUNCAGIICC	IGGACICCIA
00001			aamamaaaa=	00033303EC	
					TTATTCCCTT
•	GAGACGTGGG	AATAATTCTG	GGACACGCCA	GAGTTTCTAG	AATAAGGGAA
30351	-				ATCAGTTAGC
	ATTGATTATT	TTTTTTTATT	ATTTCGTAGT	GAATGAATTT	TAGTCAATCG

30401		CCAGTTTATT GGTCAAATAA		
30451		AGCTTCCTCC		
		TCGAAGGAGG		
30501		TTCCTCCTGT AAGGAGGACA		
30551		TGAAGCGCGC ACTTCGCGCG		
30601	-	GACACGGAAA CTGTGCCTTT		
30651		ATCCCCCAAT		TGGGGTACTC
		TAGGGGGTTA		
30701		TATCCGAACC ATAGGCTTGG		
30751		AACGGCCTCT TTGCCGGAGA		
30801	-	CACTGTGAGC GTGACACTCG		
30851		TATCTGCACC ATAGACGTGG		CCCTAACTGT GGGATTGACA
30901		GCACCTCTAA CGTGGAGATT		ACCATGCAAT TGGTACGTTA
30951		GCTAACCGTG		
		CGATTGGCAC		
31001	GGACCCCTCA CCTGGGGAGT	CAGTGTCAGA GTCACAGTCT		
31051	CCTCACCACC GGAGTGGTGG			TCACCCCTT AGTGGGGGAA
31101	TAACTACTGC ATTGATGACG			GCCCATTTAT CGGGTAAATA
31151	ACACAAAATG TGTGTTTTAC			TGCATGTAAC ACGTACATTG

31201		AACACTTTGA TTGTGAAACT			
31251	ATAATACTTC TATTATGAAG	CTTGCAAACT GAACGTTTGA		GAGCCTTGGG CTCGGAACCC	TTTTGATTCA AAAACTAAGT
31301		TGCAACTTAA ACGTTGAATT			
31351		CTTATACTTG GAATATGAAC			
31401		AAGACTAGGA TTCTGATCCT			
31451	AACTTGGATA TTGAACCTAT	TTAACTACAA AATTGATGTT		TACTTGTTTA ATGAACAAAT	
31501		AAGCTTGAGG TTCGAACTCC	TTAACCTAAG AATTGGATTC	CACTGCCAAG GTGACGGTTC	
31551		AGCCATAGCC TCGGTATCGG		GAGATGGGCT CTCTACCCGA	TGAATTTGGT ACTTAAACCA
31601		CACCAAACAC GTGGTTTGTG			TTGGCCATGG AACCGGTACC
31651		GATTCAAACA CTAAGTTTGT			
31701	TTAGTTTTGA AATCAAAACT		GCCATTACAG CGGTAATGTC	TAGGAAACAA ATCCTTTGTT	AAATAATGAT TTTATTACTA
31751		TGTGGACCAC ACACCTGGTG			<del>-</del>
31801	TGCAGAGAAA ACGTCTCTTT	GATGCTAAAC CTACGATTTG			
31851	AAATACTTGC TTTATGAACG	TACAGTTTCA ATGTCAAAGT			
31901		CAGTTCAAAG GTCAAGTTTC			
31951	TGGAGTGCTA ACCTCACGAT	CTAAACAATT GATTTGTTAA			

32001		TCTTACTGAA AGAATGACTT		
32051		TATCAGCTTA ATAGTCGAAT		
32101		AGTCAAGTTT TCAGTTCAAA		
32151	-	TACACTAAAC ATGTGATTTG	AAACAGGAGA TTTGTCCTCT	
32201		CTATGTCATT GATACAGTAA		
32251	TAATGAAATA ATTACTTTAT	TTTGCCACAT AAACGGTGTA	 	ATTGCCCAAG TAACGGGTTC
32301		CGTTTGTGTT GCAAACACAA		
32351		AGTCATTTTT TCAGTAAAAA	 	
32401		ATCACCGTAC TAGTGGCATG		
32451		CTCCCTCCCA GAGGGAGGGT		
32501		AAAAGCATCA TTTTCGTAGT		
32551		CACGGTTTCC GTGCCAAAGG		
	ATAAACTCCC TATTTGAGGG			CCAGCTGCTG GGTCGACGAC
32651		TGCTGTCCAA ACGACAGGTT		GGCGAAGGAG CCGCTTCCTC
32701	AAGTCCACGC TTCAGGTGCG	CTACATGGGG GATGTACCCC		
32751				GCCGCTCCGT CGGCGAGGCA

32801			CTCAGCGATG GAGTCGCTAC	
32851			CACAGCAGCG GTGTCGTCGC	
32901		CAGCACAGTA GTCGTGTCAT	AGCACCACAA TCGTGGTGTT	
32951			GCTCATGGCG CGAGTACCGC	
33001			GGTAGATTAA CCATCTAATT	
33051			TCTTTTGGCA AGAAAACCGT	
33101		CGGTACCATA GCCATGGTAT	ATTAAACATG TAATTTGTAC	GCGCCATCCA CGCGGTAGGT
33151			GCCGGCGGC	
33201		GACTGGAACA CTGACCTTGT	AGAGCCCAGG TCTCGGGTCC	ACTCGTAACC TGAGCATTGG
33251			GTTGGCACAA CAACCGTGTT	•
33301			CCTCCCGCGT GGAGGGCGCA	
33351			GTAAATCCCA CATTTAGGGT	
33401	AAGACCTCGC TTCTGGAGCG		TGTCAAAGTG ACAGTTTCAC	
33451	GCAGCAGCGG CGTCGTCGCC		CGCGGGTTTC GCGCCCAAAG	
33501	GGAGGTAGAC CCTCCATCTG		CGCCGAGACA GCGGCTCTGT	
33551	TGTTGGTCGT ACAACCAGCA		GCCGGACGTA CGGCCTGCAT	

33601				ACAGATCTGC TGTCTAGACG	
33651		GATCGCTCTG CTAGCGAGAC		GTAGTATATC CATCATATAG	
33701				CTATGTAAAC GATACATTTG	
33751	GCCGCTGCCC	TGATAACATC	CACCACCGCA	GAATAAGCCA CTTATTCGGT	CACCCAGCCA
33801	ACCTACACAT	TCGTTCTGCG	AGTCACACAC	GGGAGGAGCG CCCTCCTCGC	GGAAGAGCTG
33851	GAAGAACCAT	GTTTTTTTT	TTATTCCAAA	AGATTATCCA TCTAATAGGT	AAACCTCAAA
33901	ATGAAGATCT	ATTAAGTGAA	CGCGCTCCCC	TCCGGTGGCG AGGCCACCGC	TGGTCAAACT
33951	CTACAGCCAA	AGAACAGATA	ATGGCATTTG	TAAGATGTTG ATTCTACAAC	CACAATGGCT
34001	TCCAAAAGGC	AAACGGCCCT	CACGTCCAAG	TGGACGTAAA	
34051	TTCAGGGTGA	ATCTCCTCTA	TAAACATTCC	AGCACCTTCA TCGTGGAAGT	ACCATGCCCA TGGTACGGGT
34101	AATAATTCTC	ATCTCGCCAC	CTTCTCAATA	TATCTCTAAG ATAGAGATTC	
34151	ATATTAAGTC		AAAAATCTGC	TCCAGAGCGC AGGTCTCGCG	CCTCCACCTT
34201	CAGCCTCAAG	CAGCGAATCA	TGATTGCAAA	AATTCAGGTT TTAAGTCCAA	CCTCACAGAC
34251	CTGTATAAGA	TTCAAAAGCG	GAACATTAAC		CGATCCCGTA
34301	GGTCCCTTCG	CAGGGCCAGC	TGAACATAAT	CGTGCAGGTC	
34351	AGCGCGGCCA	CTTCCCCGCC	AGGAACCATG	ACAAAAGAAC	CCACACTGAT GGTGTGACTA

34401	TATGACACGC ATACTGTGCG	ATACTCGGAG TATGAGCCTC		CAGCGTAGCC GTCGCATCGG	
34451	CTTGTTGCAT GAACAACGTA	GGGCGGCGAT CCCGCCGCTA	ATAAAATGCA TATTTTACGT		CAAAAAATCA GTTTTTTAGT
34501	GGCAAAGCCT CCGTTTCGGA	CGCGCAAAAA GCGCGTTTTT	AGAAAGCACA TCTTTCGTGT		GCTCATGCAG CGAGTACGTC
34551		GTAAGCTCCG CATTCGAGGC			ACCATTTTTC TGGTAAAAAG
34601		GTCTGCGGGT CAGACGCCCA			AAATAACAAA TTTATTGTTT
34651		AACATTAGAA TTGTAATCTT			
34701		GACGGACTAC CTGCCTGATG	GGCCATGCCG CCGGTACGGC		AAAAAAACTG TTTTTTTGAC
34751		TTAAAAAGCA AATTTTTCGT		010010010	ATGTCCGGAG TACAGGCCTC
34801		AGACTCGGTA TCTGAGCCAT	AACACATCAG TTGTGTAGTC		ATCGGTCAGT TAGCCAGTCA
34851		GACCGAAATA CTGGCTTTAT			
34901		ACAGCCCCA TGTCGGGGGT			ATAGGAGAGA TATCCTCTCT
34951		AACACCTGAA TTGTGGACTT			
35001		GAACAACATA CTTGTTGTAT			CCATAACAGT GGTATTGTCA
35051		AGTAAAAAAG TCATTTTTTC			
35101		CAATCAGTCA GTTAGTCAGT			
35151	_	GACTAAAAA CTGATTTTTT			

35201			GAAACGAAAG CTTTGCTTTC	
35251			TCCCACGTTA AGGGTGCAAT	
35301		AAACTACAAT TTTGATGTTA	 TACAAGTTAC ATGTTCAATG	TCCGCCCTAA AGGCGGGATT
35351			 CCGCGCCACG GGCGCGGTGC	
35401		<del>-</del>	 CAAAATAAGG GTTTTATTCC	
	Pac	eI		
35451			CGCGAGGCTG GCGCTCCGAC	
35501			ATCGGGATGC TAGCCCTACG	
35551			CCATCAGGGA GGTAGTCCCT	
35601			 CCGCGTTGCT GGCGCAACGA	
35651			 AAAAATCGAC TTTTTAGCTG	
35701			 ATACCAGGCG TATGGTCCGC	
35751	GAAGCTCCCT CTTCGAGGGA		CCCTGCCGCT GGGACGGCGA	
35801	CTGTCCGCCT GACAGGCGGA		 GCGCTTTCTC CGCGAAAGAG	
35851	CTGTAGGTAT GACATCCATA		TCGCTCCAAG AGCGAGGTTC	
35901	TGCACGAACC ACGTGCTTGG			CGGTAACTAT GCCATTGATA

35951				TTATCGCCAC	
				AATAGCGGTG	
36001				TGTAGGCGGT ACATCCGCCA	
36051	TCTTGAAGTG	GTGGCCTAAC	TACGGCTACA	CTAGAAGGAC	AGTATTTGGT
	AGAACTTCAC	CACCGGATTG	ATGCCGATGT	GATCTTCCTG	TCATAAACCA
36101				GGAAAAAGAG CCTTTTTCTC	
26454					
36151	AACTAGGCCG			CGGTGGTTTT GCCACCAAAA	
36201	AGCAGCAGAT	TACGCGCAGA		CTCAAGAAGA	
	TCGTCGTCTA	ATGCGCGTCT	ттттттсста	GAGTTCTTCT	AGGAAACTAG
36251				GAAAACTCAC CTTTTGAGTG	
26201				CACCTAGATC	
36301		TCTAATAGTT			GAAAATTTAG
36351				TGACAGTTAC	
	TTAGATTTCA	TATATACTCA	TTTGAACCAG	ACTGTCAATG	GTTACGAATT
36401				TATTTCGTTC ATAAAGCAAG	
36451				ATACGGGAGG	·
3,0431				TATGCCCTCC	
36501				CCCACGCTCA	
	ACCGGGGTCA	CGACGTTACT	ATGGCGCTCT	GGGTGCGAGT	GGCCGAGGTC
36551	ATTTATCAGC TAAATAGTCG			GGGCCGAGCG CCCGGCTCGC	
36601	CCTGCAACTT	<b>ТАТСССССТС</b>	САТССАСТСТ	ATTAATTGTT	GCCGGGAAGC
30001				TAATTAACAA	
	TAGAGTAAGT				
	ATCTCATTCA				
36701	CTACAGGCAT GATGTCCGTA			TTGGTATGGC AACCATACCG	

36751	TCCGGTTCCC	<b>AACGATCAAG</b>	GCGAGTTACA	TGATCCCCCA	TGTTGTGCAA
	AGGCCAAGGG	TTGCTAGTTC	CGCTCAATGT	ACTAGGGGGT	ACAACACGTT
				-	
26001	1111CCCCC	3.00m00mm00	GTCCTCCGAT	CGTTGTCAGA	እርጥ <b>እ እርጥጥ</b> ርር
36801					
	TTTTCGCCAA	TCGAGGAAGC	CAGGAGGCTA	GCAACAGTCT	TCATTCAACC
36851	CCGCAGTGTT	ATCACTCATG	GTTATGGCAG	CACTGCATAA	TTCTCTTACT
			CAATACCGTC	GTGACGTATT	
	GGCGICACAA	INGIGNGIAC	CAMIACCGIC	GIGNOGILLI	1210110121-01-
36901	GTCATGCCAT	CCGTAAGATG	CTTTTCTGTG	ACTGGTGAGT	ACTCAACCAA
	CAGTACGGTA	GGCATTCTAC	GAAAAGACAC	TGACCACTCA	TGAGTTGGTT
36951	ርጥር እ ጥጥር ጥር <b>እ</b>	GAATAGTGTA	TECECCEACC	GAGTTGCTCT	TGCCCGGCGT
30931				CTCAACGAGA	
	CAGTAAGACT	CTTATCACAT	ACGCCGCTGG	CTCAACGAGA	ACGGGCCGCA
37001	CAACACGGGA	TAATACCGCG	CCACATAGCA	GAACTTTAAA	AGTGCTCATC
	GTTGTGCCCT	ATTATGGCGC	GGTGTATCGT	CTTGAAATTT	TCACGAGTAG
27254	3 MMCC3 3 3 3 C	GTTCTTCGGG	CCC3 3 3 3 CMC	TCAAGGATCT	TACCGCTGTT
37051	ATTGGAAAAC				
	TAACCTTTTG	CAAGAAGCCC	CGCTTTTGAG	AGTTCCTAGA	ATGGCGACAA
37101	GAGATCCAGT	TCGATGTAAC	CCACTCGTGC	ACCCAACTGA	TCTTCAGCAT
	で中で中国では中で国	AGCTACATTG	GGTGAGCACG	TGGGTTGACT	AGAAGTCGTA
	Ç1011100101				
		a. aa. aaam	mamaaama.a	a	*******
37151	<del>-</del>			CAAAAACAGG	
	GAAAATGAAA	GTGGTCGCAA	AGACCCACTC	GTTTTTGTCC	TTCCGTTTTA
37201	GCCGCAAAAA	AGGGAATAAG	GGCGACACGG	AAATGTTGAA	TACTCATACT
0,202				TTTACAACTT	
	CGGCGIIIII	ICCCITATIC	CCGCIGIGCC	111mcmc1x	111 0110 1111 011
37251	CTTCCTTTTT	CAATATTATT		TCAGGGTTAT	
	GAAGGAAAAA	GTTATAATAA	CTTCGTAAAT	AGTCCCAATA	ACAGAGTACT
37301	GCGGATACAT	ATTTGAATGT	ATTTAGAAAA	ATAAACAAAT	AGGGGTTCCG
37301	CGCCTATGTA			TATTTGTTTA	
	CGCCTATGTA	TAAACTTACA	IMMAICIIII	IMILIGITIA	ICCCCAAGGC
37351	CGCACATTTC				
	GCGTGTAAAG	GGGCTTTTCA	CGGTGGACTG	CAGATTCTTT	GGTAATAATA
37401	СУФСУСУФФУ	<b>አ</b> ርርጥ <b>ልጥል</b> ልል	<b>ልጥል</b> ርርሮርጥልጥ	CACGAGGCCC	TTTCGTCTTC
3,401					AAAGCAGAAG
	GTACTGTAAT	TGGATATTTT	TATCCGCATA	GIGCICCGGG	DAMOCAUAAG
	•				
37451	AAGAATTGGA	TCCGAATTCT	TAAT		
	TTCTTAACCT	AGGCTTAAGA	ATTA		

- 1	03.003.003.3.0			~~		
1					TGATAATGAG	
	TTGTGACGTG					
	GATGTTGTAA					
	GTGTGCGCCG			•		
	TAAATTTGGG					
	AGTGAAATCT					
	GACTTTGACC					
	CGGGTCAAAG					
	TGAGTTCCTC					
	TCCGACACCG					
	AATGGCCGCC					
	TCCTAGCCAT					
	CGAAGATCCC					
781	GCAGGAAGGG	ATTGACTTAT	TCACTTTTCC	GCCGGCGCCC	GGTTCTCCGG	AGCCGCCTCA
841	CCTTTCCCGG	CAGCCCGAGC	AGCCGGAGCA	GAGAGCCTTG	$\tt GGTCCGGTTT$	CTATGCCAAA
901	CCTTGTGCCG	GAGGTGATCG	ATCTTACCTG	CCACGAGGCT	${\tt GGCTTTCCAC}$	CCAGTGACGA
961	CGAGGATGAA	GAGGGTGAGG	${\tt AGTTTGTGTT}$	${\tt AGATTATGTG}$	GAGCACCCCG	GGCACGGTTG
1021	CAGGTCTTGT	CATTATCACC	GGAGGAATAC	GGGGGACCCA	${\tt GATATTATGT}$	GTTCGCTTTG
1081	CTATATGAGG	${\tt ACCTGTGGCA}$	${\tt TGTTTGTCTA}$	${\tt CAGTAAGTGA}$	AAAATTATGG	GCAGTGGGTG
1141	ATAGAGTGGT	$\tt GGGTTTGGTG$	${\tt TGGTAATTTT}$	${\bf TTTTTTAATT}$	${\tt TTTACAGTTT}$	TGTGGTTTAA
1201	AGAATTTTGT	${\tt ATTGTGATTT}$	${\tt TTTAAAAGGT}$	${\tt CCTGTGTCTG}$	AACCTGAGCC	TGAGCCCGAG
1261	CCAGAACCGG	AGCCTGCAAG	ACCTACCCGG	${\tt CGTCCTAAAT}$	TGGTGCCTGC	TATCCTGAGA
1321	CGCCCGACAT	CACCTGTGTC	TAGAGAATGC	AATAGTAGTA	CGGATAGCTG	TGACTCCGGT
1381	${\tt CCTTCTAACA}$	${\tt CACCTCCTGA}$	GATACACCCG	GTGGTCCCGC	TGTGCCCCAT	TAAACCAGTT
1441	GCCGTGAGAG	TTGGTGGGCG	TCGCCAGGCT	GTGGAATGTA	TCGAGGACTT	GCTTAACGAG
1501	TCTGGGCAAC	CTTTGGACTT	GAGCTGTAAA	CGCCCAGGC	CATAAGGTGT	AAACCTGTGA
1561	${\tt TTGCGTGTGT}$	GGTTAACGCC	TTTGTTTGCT	GAATGAGTTG	ATGTAAGTTT	AATAAAGGGT
1621	GAGATAATGT	TTAACTTGCA	TGGCGTGTTA	AATGGGGCGG	GGCTTAAAGG	GTATATAATG
1681	CGCCGTGGGC	TAATCTTGGT	TACATCTGAC	CTCATGGAGG	CTTGGGAGTG	TTTGGAAGAT
1741	TTTTCTGCTG	TGCGTAACTT	GCTGGAACAG	AGCTCTAACA	GTACCTCTTG	GTTTTGGAGG
1801	TTTCTGTGGG	GCTCCTCCCA	GGCAAAGTTA	GTCTGCAGAA	TTAAGGAGGA	TTACAAGTGG
1861	GAATTTGAAG	AGCTTTTGAA	ATCCTGTGGT	GAGCTGTTTG	ATTCTTTGAA	TCTGGGTCAC
1921	CAGGCGCTTT	TCCAAGAGAA	GGTCATCAAG	ACTTTGGATT	TTTCCACACC	GGGGCGCGCT
1981	GCGGCTGCTG	TTGCTTTTTT	GAGTTTTATA	AAGGATAAAT	GGAGCGAAGA	AACCCATCTG
2041	AGCGGGGGGT	ACCTGCTGGA	TTTTCTGGCC	ATGCATCTGT	GGAGAGCGGT	GGTGAGACAC
2101	AAGAATCGCC	TGCTACTGTT	GTCTTCCGTC	CGCCCGGCAA	TAATACCGAC	GGAGGAGCAA
2161	CAGCAGGAGG	AAGCCAGGCG	GCGGCGGCGG	CAGGAGCAGA	GCCCATGGAA	CCCGAGAGCC
	GGCCTGGACC					
	GCATTTTAAC					
	CTTCTGAGGC					
	CTGAGTGTGT					
	CGCAGAAGTA					
	AGGAGGCTAT					
		= - 2 <b>-</b>				

FIG. 17A-1

2581	GCAAACTTGT	AAATATCAGG	AATTGTTGCT	${\tt ACATTTCTGG}$	GAACGGGGCC	GAGGTGGAGA
2641	TAGATACGGA	${\tt GGATAGGGTG}$	${\tt GCCTTTAGAT}$	GTAGCATGAT	AAATATGTGG	CCGGGGGTGC
2701	TTGGCATGGA	${\tt CGGGGTGGTT}$	${\tt ATTATGAATG}$	${\tt TGAGGTTTAC}$	TGGTCCCAAT	TTTAGCGGTA
2761	CGGTTTTCCT	GGCCAATACC	AATCTTATCC	${\tt TACACGGTGT}$	AAGCTTCTAT	GGGTTTAACA
2821	ATACCTGTGT	GGAAGCCTGG	ACCGATGTAA	GGGTTCGGGG	${\tt CTGTGCCTTT}$	TACTGCTGCT
2881	GGAAGGGGGT	GGTGTGTCGC	CCCAAAAGCA	${\tt GGGCTTCAAT}$	TAAGAAATGC	CTGTTTGAAA
2941	GGTGTACCTT	GGGTATCCTG	${\tt TCTGAGGGTA}$	ACTCCAGGGT	GCGCCACAAT	GTGGCCTCCG
3001	ACTGTGGTTG	CTTTATGCTA	GTGAAAAGCG	${\tt TGGCTGTGAT}$	TAAGCATAAC	ATGGTGTGTG
3061	GCAACTGCGA	GGACAGGGCC	TCTCAGATGC	${\tt TGACCTGCTC}$	GGACGGCAAC	TGTCACTTGC
3121	TGAAGACCAT	TCACGTAGCC	AGCCACTCTC	GCAAGGCCTG	${\tt GCCAGTGTTT}$	GAGCACAACA
3181	TACTGACCCG	CTGTTCCTTG	${\tt CATTTGGGTA}$	ACAGGAGGGG	${\tt GGTGTTCCTA}$	CCTTACCAAT
3241	GCAATTTGAG	TCACACTAAG	ATATTGCTTG	AGCCCGAGAG	CATGTCCAAG	GTGAACCTGA
3301	ACGGGGTGTT	TGACATGACC	ATGAAGATCT	${\tt GGAAGGTGCT}$	${\tt GAGGTACGAT}$	GAGACCCGCA
3361	CCAGGTGCAG	ACCCTGCGAG	${\tt TGTGGCGGTA}$	AACATATTAG	${\tt GAACCAGCCT}$	GTGATGCTGG
3421	ATGTGACCGA	GGAGCTGAGG	CCCGATCACT	TGGTGCTGGC	CTGCACCCGC	GCTGAGTTTG
3481	GCTCTAGCGA	TGAAGATACA	GATTGAGGTA	${\tt CTGAAATGTG}$	TGGGCGTGGC	TTAAGGGTGG
3541	GAAAGAATAT	ATAAGGTGGG	GGTCTCATGT	AGTTTTGTAT	${\tt CTGTTTTGCA}$	GCAGCCGCCG
3601	CCATGAGCGC	CAACTCGTTT	GATGGAAGCA	TTGTGAGCTC	ATATTTGACA	ACGCGCATGC
3661	CCCCATGGGC	CGGGGTGCGT	CAGAATGTGA	TGGGCTCCAG	${\tt CATTGATGGT}$	CGCCCGTCC
3721	TGCCCGCAAA	CTCTACTACC	${\tt TTGACCTACG}$	AGACCGTGTC	TGGAACGCCG	TTGGAGACTG
3781	CAGCCTCCGC	CGCCGCTTCA	GCCGCTGCAG	CCACCGCCCG	${\tt CGGGATTGTG}$	ACTGACTTTG
3841	CTTTCCTGAG	CCCGCTTGCA	AGCAGTGCAG	${\tt CTTCCCGTTC}$	ATCCGCCCGC	GATGACAAGT
3901	TGACGGCTCT	TTTGGCACAA	TTGGATTCTT	TGACCCGGGA	ACTTAATGTC	GTTTCTCAGC
3961	AGCTGTTGGA	TCTGCGCCAG	CAGGTTTCTG	CCCTGAAGGC	$\tt TTCCTCCCCT$	CCCAATGCGG
4021	TTTAAAACAT	AAATAAAAAC	CAGACTCTGT	${\tt TTGGATTTGG}$	ATCAAGCAAG	TGTCTTGCTG
4081	TCTTTATTTA	GGGGTTTTGC	GCGCGCGGTA	GGCCCGGGAC	CAGCGGTCTC	GGTCGTTGAG
4141	GGTCCTGTGT	ATTTTTTCCA	GGACGTGGTA	AAGGTGACTC	${\tt TGGATGTTCA}$	GATACATGGG
4201	CATAAGCCCG	TCTCTGGGGT	GGAGGTAGCA	CCACTGCAGA	${\tt GCTTCATGCT}$	GCGGGGTGGT
4261	GTTGTAGATG	ATCCAGTCGT	AGCAGGAGCG	CTGGGCGTGG	TGCCTAAAAA	TGTCTTTCAG
4321	TAGCAAGCTG	ATTGCCAGGG	GCAGGCCCTT	GGTGTAAGTG	${\tt TTTACAAAGC}$	GGTTAAGCTG
4381	GGATGGGTGC	ATACGTGGGG	ATATGAGATG	CATCTTGGAC	TGTATTTTTA	GGTTGGCTAT
4441	GTTCCCAGCC	ATATCCCTCC	GGGGATTCAT	GTTGTGCAGA	ACCACCAGCA	CAGTGTATCC
4501	GGTGCACTTG	GGAAATTTGT	CATGTAGCTT	AGAAGGAAAT	GCGTGGAAGA	ACTTGGAGAC
4561	GCCCTTGTGA	CCTCCAAGAT	TTTCCATGCA	TTCGTCCATA	ATGATGGCAA	TGGGCCCACG
4621	GGCGGCGGCC	TGGGCGAAGA	TATTTCTGGG	ATCACTAACG	TCATAGTTGT	GTTCCAGGAT
4681	GAGATCGTCA	TAGGCCATTT	TTACAAAGCG	CGGGCGGAGG	GTGCCAGACT	GCGGTATAAT
4741	GGTTCCATCC	GGCCCAGGGG	CGTAGTTACC	CTCACAGATT	TGCATTTCCC	ACGCTTTGAG
4801	TTCAGATGGG	GGGATCATGT	CTACCTGCGG	GGCGATGAAG	AAAACCGTTT	CCGGGGTAGG
4861	GGAGATCAGC	TGGGAAGAAA	GCAGGTTCCT	AAGCAGCTGC	GACTTACCGC	AGCCGGTGGG
4921	CCCGTAAATC	ACACCTATTA	CCGGCTGCAA	CTGGTAGTTA	AGAGAGCTGC	AGCTGCCGTC
4981	ATCCCTGAGC	AGGGGGCCA	CTTCGTTAAG	CATGTCCCTG	ACTTGCATGT	TTTCCCTGAC
5041	CAAATCCGCC	AGAAGGCGCT	CGCCGCCCAG	CGATAGCAGT	TCTTGCAAGG	AAGCAAAGTT
5101	TTTCAACGGT	TTGAGGCCGT	CCGCCGTAGG	CATGCTTTTG	AGCGTTTGAC	CAAGCAGTTC

FIG. 17A-2

5161	CAGGCGGTCC	CACAGCTCGG	TCACGTGCTC	TACGGCATCT	CGATCCAGCA	TATCTCCTCG
					GGTGCTCGTC	
					TAGTCTGGGT	
5341	GGGTGCGCTC	CGGGTTGCGC	GCTGGCCAGG	GTGCGCTTGA	GGCTGGTCCT	GCTGGTGCTG
5401	AAGCGCTGCC	GGTCTTCGCC	CTGCGCGTCG	GCCAGGTAGC	ATTTGACCAT	GGTGTCATAG
5461	TCCAGCCCCT	CCGCGGCGTG	GCCCTTGGCG	CGCAGCTTGC	CCTTGGAGGA	GGCGCCGCAC
5521	GAGGGGCAGT	GCAGACTTTT	AAGGGCGTAG	AGCTTGGGCG	CGAGAAATAC	CGATTCCGGG
5581	GAGTAGGCAT	CCGCGCCGCA	GGCCCGCAG	ACGGTCTCGC	ATTCCACGAG	CCAGGTGAGC
5641	TCTGGCCGTT	CGGGGTCAAA	AACCAGGTTT	CCCCCATGCT	TTTTGATGCG	TTTCTTACCT
5701	CTGGTTTCCA	TGAGCCGGTG	TCCACGCTCG	GTGACGAAAA	GGCTGTCCGT	GTCCCCGTAT
5761	ACAGACTTGA	GAGGCCTGTC	CTCGAGCGGT	GTTCCGCGGT	CCTCCTCGTA	TAGAAACTCG
5821	GACCACTCTG	AGACGAAGGC	TCGCGTCCAG	GCCAGCACGA	AGGAGGCTAA	GTGGGAGGG
5881	TAGCGGTCGT	TGTCCACTAG	GGGGTCCACT	CGCTCCAGGG	TGTGAAGACA	CATGTCGCCC
5941	TCTTCGGCAT	CAAGGAAGGT	GATTGGTTTA	TAGGTGTAGG	CCACGTGACC	GGGTGTTCCT
6001	GAAGGGGGC	TATAAAAGGG	GGTGGGGGCG	CGTTCGTCCT	${\tt CACTCTCTTC}$	CGCATCGCTG
6061	TCTGCGAGGG	CCAGCTGTTG	${\tt GGGTGAGTAC}$	TCCCTCTCAA	${\tt AAGCGGGCAT}$	GACTTCTGCG
6121	CTAAGATTGT	CAGTTTCCAA	AAACGAGGAG	GATTTGATAT	${\tt TCACCTGGCC}$	CGCGGTGATG
6181	CCTTTGAGGG	TGGCCGCGTC	CATCTGGTCA	GAAAAGACAA	${\tt TCTTTTTGTT}$	GTCAAGCTTG
6241	GTGGCAAACG	ACCCGTAGAG	GGCGTTGGAC	AGCAACTTGG	CGATGGAGCG	CAGGGTTTGG
6301	TTTTTGTCGC	GATCGGCGCG	CTCCTTGGCC	GCGATGTTTA	GCTGCACGTA	TTCGCGCGCA
6361	ACGCACCGCC	ATTCGGGAAA	GACGGTGGTG	CGCTCGTCGG	GCACTAGGTG	CACGCGCCAA
6421	CCGCGGTTGT	GCAGGGTGAC	AAGGTCAACG	CTGGTGGCTA	CCTCTCCGCG	TAGGCGCTCG
6481	TTGGTCCAGC	AGAGGCGGCC	GCCCTTGCGC	GAGCAGAATG	GCGGTAGTGG	GTCTAGCTGC
6541	GTCTCGTCCG	GGGGGTCTGC	GTCCACGGTA	AAGACCCCGG	GCAGCAGGCG	CGCGTCGAAG
6601	TAGTCTATCT	TGCATCCTTG	CAAGTCTAGC	GCCTGCTGCC	ATGCGCGGGC	GGCAAGCGCG
					GGGTGAGCGC	
6721	ATGCCGCAAA	TGTCGTAAAC	GTAGAGGGGC	TCTCTGAGTA	TTCCAAGATA	TGTAGGGTAG
6781	CATCTTCCAC	CGCGGATGCT	GGCGCGCACG	TAATCGTATA	GTTCGTGCGA	GGGAGCGAGG
					GGAAGACTAT	
					CGTTGAAGCT	
					GCAGCTTGTT	
	00001011001	001100101110			CCTTGATGAT	
					ACTCTTCGCG	
					AGCCTAGCAT	
					GCGCGTATGC	
					CCATGACTTT	
-					GCAAAAAGTC	
					AGAGTATCTT	
					CGGAACGGTT	
					GGCCCACAAT	
					GTTCCTCGTA	
					CAAGATGAGG	
7681	ACGAATGAGC	TCCACAGGTC	ACGGGCCATT	AGCATTTGCA	GGTGGTCGCG	AAAGGTCCTA

FIG. 17A-3

7741	AACTGGCGAC	CTATGGCCAT	${\tt TTTTTCTGGG}$	${\tt GTGATGCAGT}$	AGAAGGTAAG	CGGGTCTTGT
7801	TCCCAGCGGT	CCCATCCAAG	GTCCGCGGCT	AGGTCTCGCG	CGGCGGTCAC	TAGAGGCTCA
7861	TCTCCGCCGA	ACTTCATGAC	CAGCATGAAG	${\tt GGCACGAGCT}$	GCTTCCCAAA	GGCCCCCATC
7921	CAAGTATAGG	TCTCTACATC	${\tt GTAGGTGACA}$	${\tt AAGAGACGCT}$	CGGTGCGAGG	ATGCGAGCCG
7981	ATCGGGAAGA	ACTGGATCTC	CCGCCACCAG	${\tt TTGGAGGAGT}$	${\tt GGCTGTTGAT}$	GTGGTGAAAG
8041	TAGAAGTCCC	TGCGACGGGC	${\tt CGAACACTCG}$	${\tt TGCTGGCTTT}$	${\tt TGTAAAAACG}$	TGCGCAGTAC
8101	TGGCAGCGGT	GCACGGGCTG	${\tt TACATCCTGC}$	${\tt ACGAGGTTGA}$	CCTGACGACC	GCGCACAAGG
8161	AAGCAGAGTG	GGAATTTGAG	CCCCTCGCCT	$\tt GGCGGGTTTG$	GCTGGTGGTC	TTCTACTTCG
8221	GCTGCTTGTC	${\tt CTTGACCGTC}$	${\tt TGGCTGCTCG}$	${\tt AGGGGAGTTA}$	${\tt CGGTGGATCG}$	GACCACCACG
8281	CCGCGCGAGC	CCAAAGTCCA	${\tt GATGTCCGCG}$	${\tt CGCGGCGGTC}$	${\tt GGAGCTTGAT}$	GACAACATCG
8341	CGCAGATGGG	AGCTGTCCAT	${\tt GGTCTGGAGC}$	TCCCGCGGCG	TCAGGTCAGG	CGGGAGCTCC
. 8401	TGCAGGTTTA	CCTCGCATAG	CCGGGTCAGG	GCGCGGGCTA	${\tt GGTCCAGGTG}$	ATACCTGATT
8461	TCCAGGGGCT	GGTTGGTGGC	GGCGTCGATG	GCTTGCAAGA	GGCCGCATCC	CCGCGGCGCG
8521	ACTACGGTAC	CGCGCGGCGG	GCGGTGGGCC	GCGGGGGTGT	CCTTGGATGA	TGCATCTAAA
8581	AGCGGTGACG	CGGGCGGCC	CCCGGAGGTA	GGGGGGCTC	GGGACCCGCC	GGGAGAGGGG
8641	GCAGGGGCAC	GTCGGCGCCG	CGCGCGGCA	GGAGCTGGTG	CTGCGCGCGG	AGGTTGCTGG
8701	CGAACGCGAC	GACGCGGCGG	TTGATCTCCT	GAATCTGGCG	CCTCTGCGTG	AAGACGACGG
8761	GCCCGGTGAG	CTTGAACCTG	AAAGAGAGTT	CGACAGAATC	AATTTCGGTG	TCGTTGACGG
8821	CGGCCTGGCG	CAAAATCTCC	TGCACGTCTC	CTGAGTTGTC	TTGATAGGCG	ATCTCGGCCA
8881	TGAACTGCTC	GATCTCTTCC	TCCTGGAGAT	CTCCGCGTCC	GGCTCGCTCC	ACGGTGGCGG
8941	CGAGGTCGTT	GGAGATGCGG	GCCATGAGCT	GCGAGAAGGC	GTTGAGGCCT	CCCTCGTTCC
9001	AGACGCGGCT	GTAGACCACG	CCCCCTTCGG	CATCGCGGGC	GCGCATGACC	ACCTGCGCGA
9061	GATTGAGCTC	CACGTGCCGG	GCGAAGACGG	CGTAGTTTCG	CAGGCGCTGA	AAGAGGTAGT
9121	TGAGGGTGGT	GGCGGTGTGT	TCTGCCACGA	AGAAGTACAT	AACCCAGCGC	CGCAACGTGG
9181	ATTCGTTGAT	ATCCCCCAAG	GCCTCAAGGC	GCTCCATGGC	CTCGTAGAAG	TCCACGGCGA
9241	AGTTGAAAAA	CTGGGAGTTG	CGCGCCGACA	CGGTTAACTC	CTCCTCCAGA	AGACGGATGA
9301	GCTCGGCGAC	AGTGTCGCGC	ACCTCGCGCT	CAAAGGCTAC	AGGGGCCTCT	TCTTCTTCTT
9361	CAATCTCCTC	TTCCATAAGG	GCCTCCCCTT	CTTCTTCTTC	TGGCGGCGGT	GGGGGAGGGG
9421	GGACACGGCG	GCGACGACGG	CGCACCGGGA	GGCGGTCGAC	AAAGCGCTCG	ATCATCTCCC
9481	CGCGGCGACG	GCGCATGGTC	TCGGTGACGG	CGCGGCCGTT	CTCGCGGGGG	CGCAGTTGGA
9541	AGACGCCGCC	CGTCATGTCC	CGGTTATGGG	TTGGCGGGGG	GCTGCCGTGC	GGCAGGGATA
9601	CGGCGCTAAC	GATGCATCTC	AACAATTGTT	GTGTAGGTAC	TCCGCCACCG	AGGGACCTGA
9661	GCGAGTCCGC	ATCGACCGGA	TCGGAAAACC	TCTCGAGAAA	GGCGTCTAAC	CAGTCACAGT
9721	CGCAAGGTAG	GCTGAGCACC	GTGGCGGGCG	GCAGCGGGCG	GCGGTCGGGG	TTGTTTCTGG
9781	CGGAGGTGCT	GCTGATGATG	TAATTAAAGT	AGGCGGTCTT	GAGACGGCGG	ATGGTCGACA
					GCGGTCGGCC	
					CATGAGCCTT	
					TATCGCTGCG	
					GACCCCGAAG	
					TATGGCCTGC	
					GTATGCGCCC	
					GTGACCCGGC	
10261	CGGTGTACCT	GAGACGCGAG	TAAGCCCTTG	AGTCAAAGAC	GTAGTCGTTG	CAAGTCCGCA

FIG. 17A-4

10321	${\tt CCAGGTACTG}$	GTATCCCACC	AAAAAGTGCG	GCGGCGGCTG	GCGGTAGAGG	GGCCAGCGTA
10381	GGGTGGCCGG	GGCTCCGGGG	$\tt GCGAGGTCTT$	CCAACATAAG	GCGATGATAT	CCGTAGATGT
10441	ACCTGGACAT	${\tt CCAGGTGATG}$	CCGGCGGCGG	TGGTGGAGGC	GCGCGGAAAG	TCACGGACGC
10501	GGTTCCAGAT	GTTGCGCAGC	${\tt GGCAAAAAGT}$	GCTCCATGGT	CGGGACGCTC	TGGCCGGTCA
10561	GGCGCGCGCA	GTCGTTGACG	${\tt CTCTAGACCG}$	TGCAAAAGGA	GAGCCTGTAA	GCGGGCACTC
10621	TTCCGTGGTC	TGGTGGATAA	ATTCGCAAGG	${\tt GTATCATGGC}$	GGACGACCGG	GGTTCGAACC
10681	CCGGATCCGG	CCGTCCGCCG	TGATCCATGC	GGTTACCGCC	${\tt CGCGTGTCGA}$	ACCCAGGTGT
10741	GCGACGTCAG	ACAACGGGGG	AGCGCTCCTT	${\tt TTGGCTTCCT}$	TCCAGGCGCG	GCGGATGCTG
10801	CGCTAGCTTT	TTTGGCCACT	GGCCGCGCGC	${\tt GGCGTAAGCG}$	${\tt GTTAGGCTGG}$	AAAGCGAAAG
10861	CATTAAGTGG	CTCGCTCCCT	GTAGCCGGAG	${\tt GGTTATTTC}$	${\tt CAAGGGTTGA}$	GTCGCGGGAC
10921	CCCCGGTTCG	AGTCTCGGGC	CGGCCGGACT	GCGGCGAACG	GGGGTTTGCC	TCCCCGTCAT
10981	GCAAGACCCC	GCTTGCAAAT	TCCTCCGGAA	ACAGGGACGA	$\tt GCCCCTTTTT$	TGCTTTTCCC
11041	AGATGCATCC	GGTGCTGCGG	CAGATGCGCC	$\tt CCCCTCCTCA$	GCAGCGGCAA	GAGCAAGAGC
11101	AGCGGCAGAC	ATGCAGGGCA	CCCTCCCCTT	CTCCTACCGC	GTCAGGAGGG	GCAACATCCG
11161	CGGCTGACGC	GGCGGCAGAT	GGTGATTACG	AACCCCCGCG	GCGCCGGACC	CGGCACTACT
11221	TGGACTTGGA	GGAGGGCGAG	GGCCTGGCGC	GGCTAGGAGC	${\tt GCCCTCTCCT}$	GAGCGACACC
11281	CAAGGGTGCA	GCTGAAGCGT	GACACGCGCG	AGGCGTACGT	GCCGCGGCAG	AACCTGTTTC
11341	GCGACCGCGA	GGGAGAGGAG	CCCGAGGAGA	TGCGGGATCG	AAAGTTCCAT	GCAGGGCGCG
11401	AGTTGCGGCA	TGGCCTGAAC	CGCGAGCGGT	TGCTGCGCGA	${\tt GGAGGACTTT}$	GAGCCCGACG
11461	CGCGGACCGG	GATTAGTCCC	GCGCGCGCAC	ACGTGGCGGC	${\tt CGCCGACCTG}$	GTAACCGCGT
11521	ACGAGCAGAC	GGTGAACCAG	GAGATTAACT	TTCAAAAAAG	${\tt CTTTAACAAC}$	CACGTGCGCA
11581	CGCTTGTGGC	GCGCGAGGAG	GTGGCTATAG	GACTGATGCA	${\tt TCTGTGGGAC}$	TTTGTAAGCG
11641	CGCTGGAGCA	AAACCCAAAT	AGCAAGCCGC	TCATGGCGCA	${\tt GCTGTTCCTT}$	ATAGTGCAGC
11701	ACAGCAGGGA	CAACGAGGCA	TTCAGGGATG	CGCTGCTAAA	CATAGTAGAG	CCCGAGGGCC
11761	GCTGGCTGCT	CGATTTGATA	AACATTCTGC	AGAGCATAGT	${\tt GGTGCAGGAG}$	CGCAGCTTGA
11821	GCCTGGCTGA	CAAGGTGGCC	GCCATTAACT	ATTCCATGCT	CAGTCTGGGC	AAGTTTTACG
11881	CCCGCAAGAT	ATACCATACC	CCTTACGTTC	CCATAGACAA	${\tt GGAGGTAAAG}$	ATCGAGGGGT
11941	TCTACATGCG	CATGGCGCTG	AAGGTGCTTA	CCTTGAGCGA	CGACCTGGGC	GTTTATCGCA
12001	ACGAGCGCAT	CCACAAGGCC	GTGAGCGTGA	GCCGGCGGCG	CGAGCTCAGC	GACCGCGAGC
12061	TGATGCACAG	CCTGCAAAGG	GCCCTGGCTG	GCACGGGCAG	CGGCGATAGA	GAGGCCGAGT
12121	CCTACTTTGA	CGCGGGCGCT	GACCTGCGCT	GGGCCCCAAG	CCGACGCGCC	CTGGAGGCAG
12181	CTGGGGCCGG	ACCTGGGCTG	GCGGTGGCAC	CCGCGCGCGC	TGGCAACGTC	GGCGGCGTGG
12241	AGGAATATGA	CGAGGACGAT	GAGTACGAGC	CAGAGGACGG	CGAGTACTAA	GCGGTGATGT
12301	TTCTGATCAG	ATGATGCAAG	ACGCAACGGA	CCCGGCGGTG	CGGGCGCGC	TGCAGAGCCA
12361	GCCGTCCGGC	CTTAACTCCA	CGGACGACTG	GCGCCAGGTC	ATGGACCGCA	TCATGTCGCT
12421	GACTGCGCGC	AACCCTGACG	CGTTCCGGCA	GCAGCCGCAG	GCCAACCGGC	TCTCCGCAAT
12481	TCTGGAAGCG	GTGGTCCCGG	CGCGCGCAAA	CCCCACGCAC	GAGAAGGTGC	TGGCGATCGT
12541	AAACGCGCTG	GCCGAAAACA	GGGCCATCCG	GCCCGATGAG	GCCGGCCTGG	TCTACGACGC
12601	GCTGCTTCAG	CGCGTGGCTC	GTTACAACAG	CAGCAACGTG	CAGACCAACC	TGGACCGGCT
12661	GGTGGGGGAT	GTGCGCGAGG	CCGTGGCGCA	GCGTGAGCGC	GCGCAGCAGC	AGGGCAACCT
12721	GGGCTCCATG	GTTGCACTAA	ACGCCTTCCT	GAGTACACAG	CCCGCCAACG	TGCCGCGGGG
12781	ACAGGAGGAC	TACACCAACT	TTGTGAGCGC	ACTGCGGCTA	ATGGTGACTG	AGACACCGCA
12841	AAGTGAGGTG	TATCAGTCCG	GGCCAGACTA	TTTTTTCCAG	ACCAGTAGAC	AAGGCCTGCA

FIG. 17A-5

12901	GACCGTAAAC	CTGAGCCAGG	CTTTCAAGAA	CTTGCAGGGG	CTGTGGGGGG	TGCGGGCTCC
12961	CACAGGCGAC	CGCGCGACCG	TGTCTAGCTT	GCTGACGCCC	AACTCGCGCC	TGTTGCTGCT
13021	GCTAATAGCG	CCCTTCACGG	ACAGTGGCAG	CGTGTCCCGG	GACACATACC	TAGGTCACTT
13081	GCTGACACTG	TACCGCGAGG	CCATAGGTCA	GGCGCATGTG	GACGAGCATA	CTTTCCAGGA
13141	GATTACAAGT	GTTAGCCGCG	CGCTGGGGCA	GGAGGACACG	GGCAGCCTGG	AGGCAACCCT
13201	GAACTACCTG	CTGACCAACC	GGCGGCAAAA	AATCCCCTCG	${\tt TTGCACAGTT}$	TAAACAGCGA
13261	GGAGGAGCGC	ATTTTGCGCT	ATGTGCAGCA	GAGCGTGAGC	${\tt CTTAACCTGA}$	TGCGCGACGG
13321	GGTAACGCCC	AGCGTGGCGC	TGGACATGAC	CGCGCGCAAC	ATGGAACCGG	GCATGTATGC
13381	CTCAAACCGG	CCGTTTATCA	ATCGCCTAAT	${\tt GGACTACTTG}$	CATCGCGCGG	CCGCCGTGAA
13441	CCCCGAGTAT	TTCACCAATG	CCATCTTGAA	CCCGCACTGG	CTACCGCCCC	CTGGTTTCTA
13501	CACCGGGGGA	${\tt TTCGAGGTGC}$	CCGAGGGTAA	${\tt CGATGGATTC}$	${\tt CTCTGGGACG}$	ACATAGACGA
13561	CAGCGTGTTT	TCCCCGCAAC	CGCAGACCCT	${\tt GCTAGAGTTG}$	CAACAACGCG	AGCAGGCAGA
13621	GGCGGCGCTG	CGAAAGGAAA	GCTTCCGCAG	GCCAAGCAGC	${\tt TTGTCCGATC}$	TAGGCGCTGC
13681	GGCCCGCGG	TCAGATGCTA	${\tt GTAGCCCATT}$	${\tt TCCAAGCTTG}$	ATAGGGTCTC	TTACCAGCAC
13741	TCGCACCACC	CGCCCGCGCC	${\tt TGCTGGGCGA}$	$\tt GGAGGAGTAC$	$\mathtt{CTAAACAACT}$	CGCTGCTGCA
13801	GCCGCAGCGC	GAAAAGAACC	TGCCTCCGGC	${\tt GTTTCCCAAC}$	AACGGGATAG	AGAGCCTAGT
13861	GGACAAGATG	AGTAGATGGA	AGACGTATGC	GCAGGAGCAC	AGGGATGTGC	CCGGCCCGCG
13921	CCCGCCCACC	CGTCGTCAAA	GGCACGACCG	${\tt TCAGCGGGGT}$	CTGGTGTGGG	AGGACGATGA
13981	CTCGGCAGAC	GACAGCAGCG	${\tt TCTTGGATTT}$	GGGAGGGAGT	GGCAACCCGT	TTGCACACCT
14041	TCGCCCCAGG	CTGGGGAGAA	TGTTTTAAAA	AAAGCATGAT	GCAAAATAAA	AAACTCACCA
14101	AGGCCATGGC	ACCGAGCGTT	${\tt GGTTTTCTTG}$	${\tt TATTCCCCTT}$	AGTATGCGGC	GCGCGGCGAT
14161	GTATGAGGAA	GGTCCTCCTC	CCTCCTACGA	GAGCGTGGTG	AGCGCGGCGC	CAGTGGCGGC
14221	GGCGCTGGGT	TCACCCTTCG	ATGCTCCCCT	GGACCCGCCG	TTCGTGCCTC	CGCGGTACCT
14281	GCGGCCTACC	GGGGGGAGAA	ACAGCATCCG	TTACTCTGAG	TTGGCACCCC	TATTCGACAC
14341	CACCCGTGTG	TACCTTGTGG	ACAACAAGTC	AACGGATGTG	GCATCCCTGA	ACTACCAGAA
14401	CGACCACAGC	AACTTTCTAA	CCACGGTCAT	TCAAAACAAT	GACTACAGCC	CGGGGGAGGC
14461	AAGCACACAG	ACCATCAATC	TTGACGACCG	GTCGCACTGG	GGCGGCGACC	TGAAAACCAT
14521	CCTGCATACC	AACATGCCAA	ATGTGAACGA	GTTCATGTTT	ACCAATAAGT	TTAAGGCGCG
14581	GGTGATGGTG	TCGCGCTCGC	TTACTAAGGA	CAAACAGGTG	GAGCTGAAAT	ACGAGTGGGT
14641	GGAGTTCACG	CTGCCCGAGG	GCAACTACTC	CGAGACCATG	ACCATAGACC	TTATGAACAA
					GGGGTTCTGG	
14761	CGGGGTAAAG	TTTGACACCC	GCAACTTCAG	ACTGGGGTTT	GACCCAGTCA	CTGGTCTTGT
14821	CATGCCTGGG	GTATATACAA	ACGAAGCCTT	CCATCCAGAC	ATCATTTTGC	TGCCAGGATG
14881	CGGGGTGGAC	TTCACCCACA	GCCGCCTGAG	CAACTTGTTG	GGCATCCGCA	AGCGGCAACC
14941	CTTCCAGGAG	GGCTTTAGGA	TCACCTACGA	TGACCTGGAG	GGTGGTAACA	TTCCCGCACT
15001	GTTGGATGTG	GACGCCTACC	AGGCAAGCTT	GAAAGATGAC	ACCGAACAGG	GCGGGGGTGG
15061	CGCAGGCGGC	GGCAACAACA	GTGGCAGCGG	CGCGGAAGAG	AACTCCAACG	CGGCAGCTGC
15121	GGCAATGCAG	CCGGTGGAGG	ACATGAACGA	TCATGCCATT	CGCGGCGACA	CCTTTGCCAC
15181	ACGGGCGGAG	GAGAAGCGCG	CTGAGGCCGA	GGCAGCGGCC	GAAGCTGCCG	CCCCCGCTGC
15241	GGAGGCTGCA	CAACCCGAGG	TCGAGAAGCC	TCAGAAGAAA	CCGGTGATTA	AACCCCTGAC
15301	AGAGGACAGC	AAGAAACGCA	GTTACAACCT	AATAAGCAAT	GACAGCACCT	TCACCCAGTA
					GCCGGGATCC	
15421	CCTGCTTTGC	ACTCCTGACG	TAACCTGCGG	CTCGGAGCAG	GTATACTGGT	CGTTGCCCGA

FIG. 17A-6

15481	CATGATGCAA	GACCCCGTGA	CCTTCCGCTC	CACGCGCCAG	ATCAGCAACT	TTCCGGTGGT
15541	GGGCGCCGAG	CTGTTGCCCG	TGCACTCCAA	GAGCTTCTAC	AACGACCAGG	CCGTCTACTC
15601	CCAGCTCATC	CGCCAGTTTA	CCTCTCTGAC	CCACGTGTTC	AATCGCTTTC	CCGAGAACCA
15661	GATTTTGGCG	CGCCCGCCAG	CCCCCACCAT	CACCACCGTC	AGTGAAAACG	TTCCTGCTCT
15721	CACAGATCAC	GGGACGCTAC	${\tt CGCTGCGCAA}$	CAGCATCGGA	GGAGTCCAGC	GAGTGACCAT
15781	TACTGACGCC	AGACGCCGCA	${\tt CCTGCCCTA}$	CGTTTACAAG	GCCCTGGGCA	TAGTCTCGCC
15841	GCGCGTCCTA	TCGAGCCGCA	${\tt CTTTTTGAGC}$	AAGCATGTCC	ATCCTTATAT	CGCCCAGCAA
15901	TAACACAGGC	TGGGGCCTGC	${\tt GCTTCCCAAG}$	${\tt CAAGATGTTT}$	GGCGGGGCCA	AGAAGCGCTC
15961	CGACCAACAC	CCAGTGCGCG	${\tt TGCGCGGGCA}$	${\tt CTACCGCGCG}$	CCCTGGGGCG	CGCACAAACG
16021	CGGCCGCACT	GGGCGCACCA	${\tt CCGTCGATGA}$	CGCCATCGAC	GCGGTGGTGG	AGGAGGCGCG
16081	CAACTACACG	CCCACGCCGC	${\tt CGCCAGTGTC}$	${\tt CACCGTGGAC}$	GCGGCCATTC	AGACCGTGGT
16141	GCGCGGAGCC	${\tt CGGCGCTACG}$	${\tt CTAAAATGAA}$	GAGACGGCGG	AGGCGCGTAG	CACGTCGCCA
16201	CCGCCGCCGA	${\tt CCCGGCACTG}$	CCGCCCAACG	CGCGGCGGCG	${\tt GCCCTGCTTA}$	ACCGCGCACG
16261	TCGCACCGGC	CGACGGGCGG	${\tt CCATGCGAGC}$	${\tt CGCTCGAAGG}$	CTGGCCGCGG	GTATTGTCAC
16321	TGTGCCCCC	AGGTCCAGGC	GACGAGCGGC	CGCCGCAGCA	GCCGCGGCCA	TTAGTGCTAT
16381	GACTCAGGGT	CGCAGGGGCA	ACGTGTACTG	${\tt GGTGCGCGAC}$	${\tt TCGGTTAGCG}$	GCCTGCGCGT
16441	GCCCGTGCGC	ACCCGCCCC	CGCGCAACTA	GATTGCAATA	${\tt AAAAACTACT}$	TAGACTCGTA
16501	CTGTTGTATG	TATCCAGCGG	CGGCGGCGCG	CATCGAAGCT	${\tt ATGTCCAAGC}$	GCAAAATCAA
16561	AGAAGAGATG	CTCCAGGTCA	TCGCGCCGGA	${\tt GATCTATGGC}$	CCCCGAAGA	AGGAAGAGCA
16621	GGATTACAAG	CCCCGAAAGC	${\tt TAAAGCGGGT}$	CAAAAAGAAA	${\tt AAGAAAGATG}$	ATGATGATGA
16681	TGAACTTGAC	GACGAGGTGG	AACTGTTGCA	CGCGACCGCG	CCCAGGCGAC	GGGTACAGTG
16741	GAAAGGTCGA	CGCGTAAGAC	GTGTTTTGCG	ACCCGGCACC	ACCGTAGTCT	TTACGCCCGG
16801	TGAGCGCTCC	ACCCGCACCT	ACAAGCGCGT	GTATGATGAG	GTGTACGGCG	ACGAGGACCT
16861	GCTTGAGCAG	GCCAACGAGC	GCCTCGGGGA	GTTTGCCTAC	GGAAAGCGGC	ATAAGGACAT
16921	GCTGGCGTTG	CCGCTGGACG	AGGGCAACCC	AACACCTAGC	CTAAAGCCCG	TGACACTGCA
16981	GCAGGTGCTG	CCCGCGCTTG	CACCGTCCGA	AGAAAAGCGC	GGCCTAAAGC	GCGAGTCTGG
17041	TGACTTGGCA	CCCACCGTGC	AGCTGATGGT	ACCCAAGCGT	CAGCGACTGG	AAGATGTCTT
17101	GGAAAAAATG	ACCGTGGAGC	CTGGGCTGGA	GCCCGAGGTC	CGCGTGCGGC	CAATCAAGCA
17161	GGTGGCACCG	GGACTGGGCG	TGCAGACCGT	GGACGTTCAG	ATACCCACCA	CCAGTAGCAC
17221	TAGTATTGCC	ACTGCCACAG	AGGGCATGGA	GACACAAACG	TCCCCGGTTG	CCTCGGCGGT
17281	GGCAGATGCC	GCGGTGCAGG	CGGCCGCTGC	GGCCGCGTCC	AAGACCTCTA	CGGAGGTGCA
17341	AACGGACCCG	TGGATGTTTC	GTGTTTCAGC	CCCCCGGCGT	CCGCGCCGTT	CAAGGAAGTA
17401	CGGCGCCGCC	AGCGCGCTAC	TGCCCGAATA	TGCCCTACAT	CCTTCCATCG	CGCCTACCCC
17461	CGGCTATCGT	GGCTACACCT	ACCGCCCCAG	AAGACGAGCA	ACTACCCGAC	GCCGAACCAC
17521	CACTGGAACC	CGCCGCCGCC	GTCGCCGTCG	CCAGCCCGTG	CTGGCCCCGA	TTTCCGTGCG
17581	CAGGGTGGCT	CGCGAAGGAG	GCAGGACCCT	GGTGCTGCCA	ACAGCGCGCT	ACCACCCCAG
17641	CATCGTTTAA	AAGCCGGTCT	TTGTGGTTCT	TGCAGATATG	GCCCTCACCT	GCCGCCTCCG
17701	TTTCCCGGTG	CCGGGATTCC	GAGGAAGAAT	GCACCGTAGG	AGGGGCATGG	CCGGCCACGG
17761	CCTGACGGGC	GGCATGCGTC	GTGCGCACCA	CCGGCGGCGG	CGCGCGTCGC	ACCGTCGCAT
17821	GCGCGGCGGT	ATCCTGCCCC	TCCTTATTCC	ACTGATCGCC	GCGGCGATTG	GCGCCGTGCC
17881	CGGAATTGCA	TCCGTGGCCT	TGCAGGCGCA	GAGACACTGA	TTAAAAACAA	GTTACATGTG
17941	GAAAAATCAA	AATAAAAGTC	TGGACTCTCA	CGCTCGCTTG	GTCCTGTAAC	TATTTTGTAG
18001	AATGGAAGAC	ATCAACTTTG	CGTCACTGGC	CCCGCGACAC	GGCTCGCGCC	CGTTCATGGG

FIG. 17A-7

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18061	AAACTGGCAA	GATATCGGCA	CCAGCAATAT	GAGCGGTGGC	GCCTTCAGCT	GGGGCTCGCT
18121	GTGGAGCGGC	ATTAAAAATT	TCGGTTCCGC	CGTTAAGAAC	TATGGCAGCA	AAGCCTGGAA
18181	CAGCAGCACA	GGCCAGATGC	TGAGGGACAA	GTTGAAAGAG	CAAAATTTCC	AACAAAAGGT
18241	GGTAGATGGC	$\mathtt{CTGGCCTCTG}$	GCATTAGCGG	GGTGGTGGAC	CTGGCCAACC	AGGCAGTGCA
18301	AAATAAGATT	AACAGTAAGC	${\tt TTGATCCCCG}$	CCCTCCCGTA	GAGGAGCCTC	CACCGGCCGT
18361	GGAGACAGTG	${\tt TCTCCAGAGG}$	$\tt GGCGTGGCGA$	AAAGCGTCCG	CGACCCGACA	GGGAAGAAAC
18421	${\tt TCTGGTGACG}$	${\tt CAAATAGACG}$	AGCCTCCCTC	GTACGAGGAG	GCACTAAAGC	AAGGCCTGCC
18481	CACCACCCGT	CCCATCGCGC	CCATGGCTAC	CGGAGTGCTG	GGCCAGCACA	CACCCGTAAC
18541	${\tt GCTGGACCTG}$	CCTCCCCCG	CCGACACCCA	GCAGAAACCT	GTGCTGCCAG	GCCCGTCCGC
18601	${\tt CGTTGTTGTA}$	${\tt ACCCGTCCTA}$	GCCGCGCGTC	CCTGCGCCGC	GCCGCCAGCG	GTCCGCGATC
18661	${\tt GTTGCGGCCC}$	${\tt GTAGCCAGTG}$	${\tt GCAACTGGCA}$	AAGCACACTG	AACAGCATCG	TGGGTTTGGG
18721	${\tt GGTGCAATCC}$	${\tt CTGAAGCGCC}$	${\tt GACGATGCTT}$	${\tt CTGATAGCTA}$	ACGTGTCGTA	TGTGTGTCAT
18781	${\tt GTATGCGTCC}$	ATGTCGCCGC	CAGAGGAGCT	GCTGAGCCGC	CGCGCGCCCG	CTTTCCAAGA
18841	TGGCTACCCC	${\tt TTCGATGATG}$	CCGCAGTGGT	CTTACATGCA	CATCTCGGGC	CAGGACGCCT
18901	${\tt CGGAGTACCT}$	GAGCCCCGGG	${\tt CTGGTGCAGT}$	TCGCCCGCGC	CACCGAGACG	TACTTCAGCC
18961	TGAATAACAA	${\tt GTTTAGAAAC}$	CCCACGGTGG	CGCCTACGCA	CGACGTGACC	ACAGACCGGT
19021	$\mathtt{CTCAGCGTTT}$	GACGCTGCGG	TTCATCCCCG	TGGACCGCGA	GGATACTGCG	TACTCGTACA
19081	${\tt AGGCGCGGTT}$	CACCCTAGCT	GTGGGTGATA	ACCGTGTGCT	AGACATGGCT	TCCACGTACT
19141	TTGACATCCG	CGGCGTGCTG	GACAGGGGCC	CTACTTTTAA	GCCCTACTCT	GGCACTGCCT
19201	ACAACGCACT	GGCCCCCAAG	GGTGCCCCCA	ACTCGTGCGA	GTGGGAACAA	AATGAAACTG
19261	CACAAGTGGA	TGCTCAAGAA	CTTGACGAAG	AGGAGAATGA	AGCCAATGAA	GCTCAGGCGC
19321	GAGAACAGGA	ACAAGCTAAG	AAAACCCATG	TATATGCCCA	GGCTCCACTG	TCCGGAATAA
19381	AAATAACTAA	AGAAGGTCTA	CAAATAGGAA	CTGCCGACGC	CACAGTAGCA	GGTGCCGGCA
19441	AAGAAATTTT	CGCAGACAAA	ACTTTTCAAC	CTGAACCACA	AGTAGGAGAA	TCTCAATGGA
					AAAGACAACT	
19561	CCTGCTATGG	CTCATACGCT	AGACCCACCA	ATTCCAACGG	CGGACAGGGC	GTTATGGTTG
19621	AACAAAATGG	TAAATTGGAA	AGTCAAGTCG	AAATGCAATT	TTTTTCCACA	TCCACAAATG
					GTACAGCGAA	
19741	TGGAAACTCC	AGATACTCAT	CTTTCTTATA	AACCTAAAAT	GGGGGATAAA	AATGCCAAAG
					CATTGCTTTT	
					TGTCCTTGCT	
19921	CGCAGTTGAA	CGCTGTTGTA	GATTTGCAAG	ACAGAAACAC	AGAGCTGTCC	TACCAGCTTT
					GTGGAATCAA	
					TGAGGATGAG	
					TCAAGCTGTT	
					TTCAACATTT	
					CCTGAATGCC	
					CAAGCTAAAA	
					CATGAACAAG	
					CTGGTCTCTG	
					GCGTTACCGC	
					CCAAAAGTTT	
20581	AAAACCTCCT	CCTCCTGCCA	GGCTCATACA	CATATGAATG	GAACTTCAGG	AAGGATGTTA

20641	ACATGGTTCT	GCAGAGCTCT	CTGGGAAACG	ACCTTAGAGT	TGACGGGGCT	AGCATTAAGT
20701	TTGACAGCAT	TTGTCTTTAC	GCCACCTTCT	TCCCCATGGC	CCACAACACG	GCCTCCACGC
20761	TGGAAGCCAT	GCTCAGAAAT	GACACCAACG	ACCAGTCCTT	TAATGACTAC	CTTTCCGCCG
20821	CCAACATGCT	ATATCCCATA	CCCGCCAACG	CCACCAACGT	GCCCATCTCC	ATCCCATCGC
20881	GCAACTGGGC	AGCATTTCGC	GGTTGGGCCT	TCACACGCTT	GAAGACAAAG	GAAACCCCTT
20941	CCCTGGGATC	AGGCTACGAC	CCTTACTACA	CCTACTCTGG	CTCCATACCA	TACCTTGACG
21001	GAACCTTCTA	TCTTAATCAC	ACCTTTAAGA	AGGTGGCCAT	TGACGGGGCT AGCATTAAGT GGC CCACAACACG GCCTCCACGC GTT TAATGACTAC CTTTCCGCCG GT GCCCATCTCC ATCCCATCGC GT GAAGACAAAG GAAACCCCTT GAAGACAAAG GAAACCCCTT TACTTTTGAC TCTTCTGTTA GTT TGAGATTAAG CGCTCAGTGG CAT TACTTTTGAC TACAAAGACC CAT TCCAGAAAGC TACAAAGACC CAG GCAAGTGGTG GACGATACTA GAA GTTTCTTTGC GACCGCACCC CAG GCCATATGTT CCCTACCCAC CAG GTGAATGTT CCCTACCCAC CAG GCCCTTCTGG GACCGCACCC CAC GCCCTTCTGG GCCGGCAACG CAC GCCCTTCTGG GCCGGCAACG CAC TATTTTTTGG GCACCTAGAAAAC CAC TGCGCCATAG TTAACACGGC CAC TGCGCCATAG TTAACACGGC CAC TGCGCCATAG TTAACACGGC CAC TGCGCCATAG TTAACACGGC CAC TCCAAGAGC GCTGAAAAAC CAT TCCCCCGAC GCTGATACAC CAC GCCCTTCTG GCCCTATTCTG CAC TCCACCAGG TTACCAGTT CCCCCGACC GCTTATTCTG CAC TCCACCAGG TTACCAGTT CACAAGCAGG TTACCAGTT CACAAGCAGG TTACCAGCCAC CAC GCCCATTGGATC ACAACCCCAC CAC GCCCACTCGC CCTACTTCCG CAC GCCACTCGC CCTACTTCCG CAC GCCCACTCGC CCTACTTCCG CAC GCCCACTCGC CCTACTTCCG CAC GCCCACTCGC CCTACTTCCG CAC GCCCACTCGC CCTACTTCCG CAC GCCCCCACG TCCCCCCC CACAAAAGGGC TCCCCCCGCT CAC GCCCCCCAC CAC GCCCCCCAC CAC GCCCCCCAC CAC GCCCCCCCAC CAC CCCCCCCCC CACACACCCCAC CAC CCCCCCCC	
21061	GCTGGCCGGG	CAACGACCGC	CTGCTTACTC	CCAATGAGTT	TGAGATTAAG	CGCTCAGTTG
21121	ACGGGGAGGG	CTATAACGTA	GCTCAGTGCA	ACATGACAAA	GGACTGGTTC	CTAGTGCAGA
21181	TGTTGGCCAA	CTACAATATT	GGCTACCAGG	GCTTCTACAT	TCCAGAAAGC	TACAAAGACC
21241	GCATGTACTC	GTTCTTCAGA	AACTTCCAGC	CCATGAGCCG	GCAAGTGGTG	GACGATACTA
21301	AATACAAAGA	TTATCAGCAG	GTTGGAATTA	TCCACCAGCA	TAACAACTCA	GGCTTCGTAG
21361	GCTACCTCGC	TCCCACCATG	CGCGAGGGAC	AAGCTTACCC	CGCTAATGTT	CCCTACCCAC
21421	TAATAGGCAA	AACCGCGGTT	GATAGTATTA	CCCAGAAAAA	${\tt GTTTCTTTGC}$	GACCGCACCC
21481	TGTGGCGCAT	CCCCTTCTCC	AGTAACTTTA	TGTCCATGGG	TGCGCTCACA	GACCTGGGCC
21541	AAAACCTTCT	${\tt CTACGCAAAC}$	TCCGCCCACG	CGCTAGACAT	${\tt GACCTTTGAG}$	GTGGATCCCA
21601	TGGACGAGCC	${\tt CACCCTTCTT}$	${\tt TATGTTTTGT}$	${\tt TTGAAGTCTT}$	${\tt TGACGTGGTC}$	CGTGTGCACC
21661	AGCCGCACCG	CGGCGTCATC	GAGACCGTGT	ACCTGCGCAC	$\tt GCCCTTCTCG$	GCCGGCAACG
21721	CCACAACATA	AAGAAGCAAG	CAACATCAAC	AACAGCTGCC	GCCATGGGCT	CCAGTGAGCA
21781	GGAACTGAAA	GCCATTGTCA	AAGATCTTGG	TTGTGGGCCA	TATTTTTTGG	GCACCTATGA
21841	CAAGCGCTTC	CCAGGCTTTG	TTTCCCCACA	CAAGCTCGCC	TGCGCCATAG	TTAACACGGC
21901	CGGTCGCGAG	ACTGGGGGCG	TACACTGGAT	GGCCTTTGCC	TGGAACCCGC	GCTCAAAAAC
21961	ATGCTACCTC	TTTGAGCCCT	TTGGCTTTTC	TGACCAACGT	CTCAAGCAGG	TTTACCAGTT
22021	TGAGTACGAG	TCACTCCTGC	GCCGTAGCGC	CATTGCCTCT	TCCCCGACC	GCTGTATAAC
22081	GCTGGAAAAG	TCCACCCAAA	GCGTGCAGGG	GCCCAACTCG	GCCGCCTGTG	GCCTATTCTG
22141	CTGCATGTTT	CTCCACGCCT	TTGCCAACTG	GCCCCAAACT	CCCATGGATC	ACAACCCCAC
22201	CATGAACCTT	ATTACCGGGG	TACCCAACTC	CATGCTTAAC	AGTCCCCAGG	TACAGCCCAC
22321	CAGCCACAGT	GCGCAAATTA	GGAGCGCCAC	TTCTTTTTGT	CACTTGAAAA	ACATGTAAAA
	_					
22681	CCTGCGCGCG	CGAGTTGCGA	TACACAGGGT	TACAGCACTG	GAACACTATC	AGCGCCGGGT
		GAACATGCCG				
		GCACCTTGCG				
		CTTGGCCTTG				
23161	TCACATCCAT	TTCAATCACG	TGCTCCTTAT	TTATCATAAT	GCTCCCGTGT	AGACACTTAA

FIG. 17A-9

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23221 GCTCGCCTTC GATCTCAGCG CAGCGGTGCA GCCACAACGC GCAGCCCGTG GGCTCGTGGT
23281 GCTTGTAGGT TACCTCTGCA AACGACTGCA GGTACGCCTG CAGGAATCGC CCCATCATCG
23341 TCACAAAGGT CTTGTTGCTG GTGAAGGTCA GCTGCAACCC GCGGTGCTCC TCGTTTAGCC
23401 AGGTCTTGCA TACGGCCGCC AGAGCTTCCA CTTGGTCAGG CAGTAGCTTG AAGTTTGCCT
23461 TTAGATCGTT ATCCACGTGG TACTTGTCCA TCAACGCGCG CGCAGCCTCC ATGCCCTTCT
23521 CCCACGCAGA CACGATCGGC AGGCTCAGCG GGTTTATCAC CGTGCTTTCA CTTTCCGCTT
23581 CACTGGACTC TTCCTTTTCC TCTTGCATCC GCATACCCCG CGCCACTGGG TCGTCTTCAT
23641 TCAGCCGCCG CACCGTGCGC TTACCTCCCT TGCCGTGCTT GATTAGCACC GGTGGGTTGC
23701 TGAAACCCAC CATTTGTAGC GCCACATCTT CTCTTTCTTC CTCGCTGTCC ACGATCACCT
23761 CTGGGGATGG CGGGCGCTCG GGCTTGGGAG AGGGGCGCTT CTTTTTCTTT TTGGACGCAA
23821 TGGCCAAATC CGCCGTCGAG GTCGATGGCC GCGGGCTGGG TGTGCGCGGC ACCAGCGCAT
23881 CTTGTGACGA GTCTTCTTCG TCCTCGGACT CGAGACGCCG CCTCAGCCGC TTTTTTGGGG
23941 GCGCGCGGG AGGCGGCGGC GACGGCGACG GGGACGAGAC GTCCTCCATG GTTGGTGGAC
24001 GTCGCGCCGC ACCGCGTCCG CGCTCGGGGG TGGTTTCGCG CTGCTCCTCT TCCCGACTGG
24061 CCATTTCCTT CTCCTATAGG CAGAAAAAGA TCATGGAGTC AGTCGAGAAG GAGGACAGCC
24121 TAACCGCCCC CTTTGAGTTC GCCACCACCG CCTCCACCGA TGCCGCCAAC GCGCCTACCA
24181 CCTTCCCCGT CGAGGCACCC CCGCTTGAGG AGGAGGAAGT GATTATCGAG CAGGACCCAG
24241 GTTTTGTAAG CGAAGACGAC GAAGATCGCT CAGTACCAAC AGAGGATAAA AAGCAAGACC
24301 AGGACGACGC AGAGGCAAAC GAGGAACAAG TCGGGCGGGG GGACCAAAGG CATGGCGACT
24361 ACCTAGATGT GGGAGACGAC GTGCTGTTGA AGCATCTGCA GCGCCAGTGC GCCATTATCT
24421 GCGACGCGTT GCAAGAGCGC AGCGATGTGC CCCTCGCCAT AGCGGATGTC AGCCTTGCCT
24481 ACGAACGCCA CCTGTTCTCA CCGCGCGTAC CCCCCAAACG CCAAGAAAAC GGCACATGCG
24541 AGCCCAACCC GCGCCTCAAC TTCTACCCCG TATTTGCCGT GCCAGAGGTG CTTGCCACCT
24601 ATCACATCTT TTTCCAAAAC TGCAAGATAC CCCTATCCTG CCGTGCCAAC CGCAGCCGAG
24661 CGGACAAGCA GCTGGCCTTG CGGCAGGGCG CTGTCATACC TGATATCGCC TCGCTCGACG
24721 AAGTGCCAAA AATCTTTGAG GGTCTTGGAC GCGACGAGAA GCGCGCGGCA AACGCTCTGC
24781 AACAAGAAAA CAGCGAAAAT GAAAGTCACT GTGGAGTGCT GGTGGAACTT GAGGGTGACA
24841 ACGCGCGCCT AGCCGTGCTG AAACGCAGCA TCGAGGTCAC CCACTTTGCC TACCCGGCAC
24901 TTAACCTACC CCCCAAGGTT ATGAGCACAG TCATGAGCGA GCTGATCGTG CGCCGTGCAC
24961 GACCCCTGGA GAGGGATGCA AACTTGCAAG AACAAACCGA GGAGGGCCTA CCCGCAGTTG
25021 GCGATGAGCA GCTGGCGCGC TGGCTTGAGA CGCGCGAGCC TGCCGACTTG GAGGAGCGAC
25081 GCAAGCTAAT GATGGCCGCA GTGCTTGTTA CCGTGGAGCT TGAGTGCATG CAGCGGTTCT
25141 TTGCTGACCC GGAGATGCAG CGCAAGCTAG AGGAAACGTT GCACTACACC TTTCGCCAGG
25201 GCTACGTGCG CCAGGCCTGC AAAATTTCCA ACGTGGAGCT CTGCAACCTG GTCTCCTACC
25261 TTGGAATTTT GCACGAAAAC CGCCTTGGGC AAAACGTGCT TCATTCCACG CTCAAGGGCG
25321 AGGCGCGCCG CGACTACGTC CGCGACTGCG TTTACTTATT TCTGTGCTAC ACCTGGCAAA
25381 CGGCCATGGG CGTGTGGCAG CAGTGCCTGG AGGAGCGCAA CCTGAAGGAG CTGCAGAAGC
25441 TGCTAAAGCA AAACTTGAAG GACCTATGGA CGGCCTTCAA CGAGCGCTCC GTGGCCGCGC
25501 ACCTGGCGGA CATTATCTTC CCCGAACGCC TGCTTAAAAC CCTGCAACAG GGTCTGCCAG
25561 ACTTCACCAG TCAAAGCATG TTGCAAAACT TTAGGAACTT TATCCTAGAG CGTTCAGGAA
25621 TTCTGCCCGC CACCTGCTGT GCGCTTCCTA GCGACTTTGT GCCCATTAAG TACCGTGAAT
25681 GCCCTCCGCC GCTTTGGGGT CACTGCTACC TTCTGCAGCT AGCCAACTAC CTTGCCTACC
25741 ACTCCGACAT CATGGAAGAC GTGAGCGGTG ACGGCCTACT GGAGTGTCAC TGTCGCTGCA
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FIG. 17A-10

25801	ACCTATGCAC	CCCGCACCGC	TCCCTGGTCT	GCAATTCACA	ACTGCTTAGC	GAAAGTCAAA
25861	TTATCGGTAC	CTTTGAGCTG	CAGGGTCCCT	CGCCTGACGA	AAAGTCCGCG	GCTCCGGGGT
25921	TGAAACTCAC	TCCGGGGCTG	TGGACGTCGG	CTTACCTTCG	CAAATTTGTA	CCTGAGGACT
25981	ACCACGCCCA	CGAGATTAGG	TTCTACGAAG	ACCAATCCCG	CCCGCCAAAT	GCGGAGCTTA
26041	CCGCCTGCGT	CATTACCCAG	GGCCACATCC	TTGGCCAATT	GCAAGCCATT	AACAAAGCCC
26101	GCCAAGAGTT	TCTGCTACGA	AAGGGACGGG	${\tt GGGTTTACTT}$	GGACCCCCAG	TCCGGCGAGG
26161	AGCTCAACCC	AATCCCCCCG	CCGCCGCAGC	CCTATCAGCA	GCCGCGGGCC	CTTGCTTCCC
26221	AGGATGGCAC	CCAAAAAGAA	GCTGCAGCTG	CCGCCGCCGC	CACCCACGGA	CGAGGAGGAA
26281	TACTGGGACA	GTCAGGCAGA	${\tt GGAGGTTTTG}$	GACGAGGAGG	${\tt AGGAGATGAT}$	GGAAGACTGG
26341	GACAGCCTAG	ACGAGGAAGC	TTCCGAGGCC	${\tt GAAGAGGTGT}$	CAGACGAAAC	ACCGTCACCC
26401	TCGGTCGCAT	TCCCCTCGCC	GGCGCCCAG	AAATCGGCAA	${\tt CCGTTCCCAG}$	CATTGCTACA
26461	ACCTCCGCTC	CTCAGGCGCC	GCCGGCACTG	CCCGTTCGCC	GACCCAACCG	TAGATGGGAC
26521	ACCACTGGAA	CCAGGGCCGG	TAAGTCTAAG	CAGCCGCCGC	${\tt CGTTAGCCCA}$	AGAGCAACAA
26581	CAGCGCCAAG	GCTACCGCTC	GTGGCGCGTG	CACAAGAACG	${\tt CCATAGTTGC}$	TTGCTTGCAA
26641	GACTGTGGGG	GCAACATCTC	CTTCGCCCGC	${\tt CGCTTTCTTC}$	${\tt TCTACCATCA}$	CGGCGTGGCC
26701	TTCCCCCGTA	ACATCCTGCA	TTACTACCGT	CATCTCTACA	${\tt GCCCCTACTG}$	CACCGGCGGC
26761	AGCGGCAGCA	ACAGCAGCGG	CCACGCAGAA	GCAAAGGCGA	CCGGATAGCA	AGACTCTGAC
26821	AAAGCCCAAG	AAATCCACAG	CGGCGGCAGC	AGCAGGAGGA	${\tt GGAGCACTGC}$	GTCTGGCGCC
26881	CAACGAACCC	GTATCGACCC	GCGAGCTTAG	AAACAGGATT	${\tt TTTCCCACTC}$	TGTATGCTAT
26941	ATTTCAACAG	AGCAGGGGCC	AAGAACAAGA	${\tt GCTGAAAATA}$	AAAAACAGGT	CTCTGCGCTC
27001	CCTCACCCGC	AGCTGCCTGT	ATCACAAAAG	CGAAGATCAG	${\tt CTTCGGCGCA}$	CGCTGGAAGA
27061	CGCGGAGGCT	CTCTTCAGCA	AATACTGCGC	${\tt GCTGACTCTT}$	AAGGACTAGT	TTCGCGCCCT
27121	TTCTCAAATT	TAAGCGCGAA	AACTACGTCA	TCTCCAGCGG	CCACACCCGG	CGCCAGCACC
27181	TGTCGTCAGC	GCCATTATGA	GCAAGGAAAT	TCCCACGCCC	TACATGTGGA	GTTACCAGCC
27241	ACAAATGGGA	CTTGCGGCTG	GAGCTGCCCA	AGACTACTCA	ACCCGAATAA	ACTACATGAG
27301	CGCGGGACCC	CACATGATAT	CCCGGGTCAA	CGGAATCCGC	GCCCACCGAA	ACCGAATTCT
27361	CCTCGAACAG	GCGGCTATTA	CCACCACACC	TCGTAATAAC	CTTAATCCCC	GTAGTTGGCC
27421	CGCTGCCCTG	GTGTACCAGG	AAAGTCCCGC	TCCCACCACT	GTGGTACTTC	CCAGAGACGC
27481	CCAGGCCGAA	GTTCAGATGA	CTAACTCAGG	GGCGCAGCTT	GCGGGCGCT	TTCGTCACAG
27541	GGTGCGGTCG	CCCGGGCAGG	GTATAACTCA	CCTGAAAATC	AGAGGGCGAG	GTATTCAGCT
27601	CAACGACGAG	TCGGTGAGCT	CCTCTCTTGG	TCTCCGTCCG	GACGGGACAT	TTCAGATCGG
27661	CGGCGCTGGC	CGCTCTTCAT	TTACGCCCCG	TCAGGCGATC	CTAACTCTGC	AGACCTCGTC
27721	CTCGGAGCCG	CGCTCCGGAG	GCATTGGAAC	TCTACAATTT	ATTGAGGAGT	TCGTGCCTTC
27781	GGTTTACTTC	AACCCCTTTT	CTGGACCTCC	CGGCCACTAC	CCGGACCAGT	TTATTCCCAA
27841	CTTTGACGCG	GTAAAAGACT	CGGCGGACGG	CTACGACTGA	ATGACCAGTG	GAGAGGCAGA
27901	GCAACTGCGC	CTGACACACC	TCGACCACTG	CCGCCGCCAC	AAGTGCTTTG	CCCGCGGCTC
27961	CGGTGAGTTT	TGTTACTTTG	AATTGCCCGA	AGAGCATATC	GAGGGCCCGG	CGCACGGCGT
28021	CCGGCTCACC	ACCCAGGTAG	AGCTTACACG	TAGCCTGATT	CGGGAGTTTA	CCAAGCGCCC
28081	CCTGCTAGTG	GAGCGGGAGC	GGGGTCCCTG	TGTTCTGACC	GTGGTTTGCA	ACTGTCCTAA
28141	CCCTGGATTA	CATCAAGATC	TTTGTTGTCA	TCTCTGTGCT	GAGTATAATA	AATACAGAAA
28201	TTAGAATCTA	CTGGGGCTCC	TGTCGCCATC	CTGTGAACGC	CACCGTTTTT	ACCCACCCAA
28261	AGCAGACCAA	AGCAAACCTC	ACCTCCGGTT	TGCACAAGCG	GGCCAATAAG	TACCTTACCT
28321	GGTACTTTAA	CGGCTCTTCA	TTTGTAATTT	ACAACAGTTT	CCAGCGAGAC	GAAGTAAGTT

FIG. 17A-11

28381	TGCCACACAA	CCTTCTCGGC	TTCAACTACA	CCGTCAAGAA	AAACACCACC	ACCACCCTCC
28441	TCACCTGCCG	GGAACGTACG	AGTGCGTCAC	CGGTTGCTGC	GCCCACACCT	ACAGCCTGAG
28501	CGTAACCAGA	CATTACTCCC	${\tt ATTTTCCCAA}$	AACAGGAGGT	GAGCTCAACT	CCCGGAACTC
28561	AGGTCAAAAA	AGCATTTTGC	$\tt GGGGTGCTGG$	GATTTTTTAA	${\tt TTAAGTATAT}$	GAGCAATTCA
28621	AGTAACTCTA	CAAGCTTGTC	${\tt TAATTTTTCT}$	${\tt GGAATTGGGG}$	${\tt TCGGGGTTAT}$	CCTTACTCTT
28681	GTAATTCTGT	TTATTCTTAT	ACTAGCACTT	${\tt CTGTGCCTTA}$	GGGTTGCCGC	CTGCTGCACG
28741	CACGTTTGTA	CCTATTGTCA	GCTTTTTAAA	CGCTGGGGGC	GACATCCAAG	ATGAGGTÀCA
28801	TGATTTTAGG	CTTGCTCGCC	CTTGCGGCAG	TCTGCAGCGC	TGCCAAAAAG	GTTGAGTTTA
28861	AGGAACCAGC	TTGCAATGTT	ACATTTAAAT	CAGAAGCTAA	TGAATGCACT	ACTCTTATAA
28921	AATGCACCAC	AGAACATGAA	AAGCTTATTA	TTCGCCACAA	AGACAAAATT	GGCAAGTATG
28981	CTGTATATGC	TATTTGGCAG	CCAGGTGACA	CTAACGACTA	TAATGTCACA	GTCTTCCAAG
29041	GTGAAAATCG	TAAAACTTTT	ATGTATAAAT	TTCCATTTTA	TGAAATGTGC	GATATTACCA
29101	TGTACATGAG	CAAACAGTAC	AAGTTGTGGC	CCCCACAAAA	GTGTTTAGAG	AACACTGGCA
29161	CCTTTTGTTC	CACCGCTCTG	CTTATTACAG	CGCTTGCTTT	GGTATGTACC	TTACTTTATC
29221	TCAAATACAA	AAGCAGACGC	AGTTTTATTG	ATGAAAAGAA	AATGCCTTGA	TTTTCCGCTT
29281	GCTTGTATTC	CCCTGGACAA	TTTACTCTAT	GTGGGATATG	CGCCAGGCGG	GAAAGATTAT
29341	ACCCACAACC	TTCAAATCAA	ACTTTCCTGG	ACGTTAGCGC	CTGACTTCTG	CCAGCGCCTG
29401	CACTGCAAAT	TTGATCAAAC	CCAGCTTCAG	CTTGCCTGCT	CCAGAGATGA	CCGGCTCAAC
29461	CATCGCGCCC	ACAACGGACT	ATCGCAACAC	CACTGCTACC	GGACTAAAAT	CTGCCCTAAA
29521	TTTACCCCAA	GTTCATGCCT	TTGTCAATGA	CTGGGCGAGC	TTGGGCATGT	GGTGGTTTTC
29581	CATAGCGCTT	ATGTTTGTTT	GCCTTATTAT	TATGTGGCTT	ATTTGTTGCC	TAAAGCGCAG
29641	ACGCGCCAGA	CCCCCATCT	ATAGGCCTAT	CATTGTGCTC	AACCCACACA	ATGAAAAAAT
29701	TCATAGATTG	GACGGTCTCA	AACCATGTTC	TCTTCTTTTA	CAGTATGATT	AAATGAGACA
29761	TGATTCCTCG	AGTCCTTATA	TTATTGACCC	TTGTTGCGCT	TTTCTGTGCG	TGCTCTACAT
29821	TGGCTGCGGT	CGCTCACATC	GAAGTAGATT	GCATCCCACC	TTTCACAGTT	TACCTGCTTT
29881	ACGGATTTGT	CACCCTTATC	CTCATCTGCA	GCCTCGTCAC	TGTAGTCATC	GCCTTCATTC
29941	AGTTCATTGA	CTGGATTTGT	GTGCGCATTG	CGTACCTTAG	GCACCATCCG	CAATACAGAG
30001	ACAGGACTAT	AGCTGATCTT	CTCAGAATTC	TTTAATTATG	AAACGGATTG	TCACTTTTGT
30061	TTTGCTGATT	TTCTGCGCCC	TACCTGTGCT	TTGCTCCCAA	ACCTCAGCGC	CTCCCAAAAG
30121	ACATATTTCC	TGCAGATTCA	CTCAAATATG	GAACATTCCC	AGCTGCTACA	ACAAACAGAG
30181	CGATTTGTCA	GAAGCCTGGT	TATACGCCAT	CATCTCTGTC	ATGGTTTTTT	GCAGTACCAT
30241	TTTTGCCCTA	GCCATATACC	CATACCTTGA	CATTGGTTGG	AATGCCATAG	ATGCCATGAA
30301	CCACCCTACT	TTCCCAGCGC	CCAATGTCAT	ACCACTGCAA	CAGGTTATTG	CCCCAATCAA
30361	TCAGCCTCGC	CCCCCTTCTC	CCACCCCCAC	TGAGATTAGC	TACTTTAATT	TGACAGGTGG
30421	AGATGACTGA	ATCTCTAGAT	CTAGAATTGG	ATGGAATTAA	CACCGAACAG	CGCCTACTAG
30481	AAAGGCGCAA	GGCGGCGTCC	GAGCGAGAAC	GCCTAAAACA	AGAAGTTGAA	GACATGGTTA
30541	ACCTGCACCA	GTGTAAAAGA	GGTATCTTTT	GTGTGGTCAA	GCAGGCCAAA	CTTACCTACG
30601	AAAAAACCAC	TACCGGCAAC	CGCCTTAGCT	ACAAGCTACC	CACCCAGCGC	CAAAAACTGG
30661	TGCTTATGGT	GGGAGAAAA	CCTATCACCG	TCACCCAGCA	CTCGGCAGAA	ACAGAAGGCT
30721	GCCTGCACTT	CCCCTATCAG	GGTCCAGAGG	ACCTCTGCAC	TCTTATTAAA	ACCATGTGTG
30781	GCATTAGAGA	TCTTATTCCA	TTCAACTAAC	AATAAACACA	CAATAAATTA	CTTACTTAAA
30841	ATCAGTCAGC	AAATCTTTGT	CCAGCTTATT	CAGCATCACC	TCCTTTCCCT	CCTCCCAACT
30901	CTGGTATTTC	AGCAGCCTTT	TAGCTGCGAA	CTTTCTCCAA	AGTCTAAATG	GGATGTCAAA

FIG. 17A-12

			CCGCACCCAC			
			TCAACCCTGT			
			CTCCCTTTGT			
			TTTCAGAACC			
			CCCTGGATCA			•
31261	TGTTTCTCAA	CCGCTAAAAA	AAACAAAGTC	CAATATAACT	TTGGAAACAT	CCGCGCCCCT
31321	TACAGTCAGC	TCAGGCGCCC	TAACCATGGC	CACAACTTCG	CCTTTGGTGG	TCTCTGACAA
31381	CACTCTTACC	ATGCAATCAC	AAGCACCGCT	AACCGTGCAA	GACTCAAAAC	TTAGCATTGC
31441	TACCAAAGAG	CCACTTACAG	TGTTAGATGG	AAAACTGGCC	CTGCAGACAT	CAGCCCCCT
31501	CTCTGCCACT	GATAACAACG	CCCTCACTAT	CACTGCCTCA	CCTCCTCTTA	CTACTGCAAA
31561	TGGTAGTCTG	GCTGTTACCA	TGGAAAACCC	ACTTTACAAC	AACAATGGAA	AACTTGGGCT
31621	CAAAATTGGC	GGTCCTTTGC	AAGTGGCCAC	CGACTCACAT	GCACTAACAC	TAGGTACTGG
31681	TCAGGGGGTT	GCAGTTCATA	ACAATTTGCT	ACATACAAAA	${\tt GTTACAGGCG}$	CAATAGGGTT
31741	TGATACATCT	GGCAACATGG	AACTTAAAAC	TGGAGATGGC	$\mathtt{CTCTATGTGG}$	ATAGCGCCGG
31801	TCCTAACCAA	AAACTACATA	TTAATCTAAA	TACCACAAAA	GGCCTTGCTT	TTGACAACAC
31861	CGCAATAACA	ATTAACGCTG	GAAAAGGGTT	GGAATTTGAA	ACAGACTCCT	CAAACGGAAA
31921	TCCCATAAAA	ACAAAAATTG	GATCAGGCAT	ACAATATAAT	ACCAATGGAG	CTATGGTTGC
31981	AAAACTTGGA	ACAGGCCTCA	GTTTTGACAG	CTCCGGAGCC	ATAACAATGG	GCAGCATAAA
32041	CAATGACAGA	CTTACTCTTT	GGACAACACC	AGACCCATCC	CCAAATTGCA	GAATTGCTTC
32101	AGATAAAGAC	TGCAAGCTAA	CTCTGGCGCT	AACAAAATGT	GGCAGTCAAA	TTTTGGGCAC
32161	TGTTTCAGCT	TTGGCAGTAT	CAGGTAATAT	GGCCTCCATC	AATGGAACTC	TAAGCAGTGT
32221	AAACTTGGTT	${\tt CTTAGATTTG}$	ATGACAACGG	AGTGCTTATG	TCAAATTCAT	CACTGGACAA
32281	ACAGTATTGG	AACTTTAGAA	ACGGGGACTC	CACTAACGGT	CAACCATACA	CTTATGCTGT
32341	$\mathtt{TGGGTTTATG}$	CCAAACCTAA	AAGCTTACCC	AAAAACTCAA	AGTAAAACTG	CAAAAAGTAA
32401	TATTGTTAGC	CAGGTGTATC	${\tt TTAATGGTGA}$	CAAGTCTAAA	CCATTGCATT	TTACTATTAC
32461	GCTAAATGGA	ACAGATGAAA	${\tt CCAACCAAGT}$	AAGCAAATAC	TCAATATCAT	TCAGTTGGTC
32521	CTGGAACAGT	GGACAATACA	${\tt CTAATGACAA}$	ATTTGCCACC	AATTCCTATA	CCTTCTCCTA
32581	CATTGCCCAG	GAATAAAGAA	${\tt TCGTGAACCT}$	${\tt GTTGCATGTT}$	ATGTTTCAAC	GTGTTTATTT
32641	TTCAATTGCA	${\tt GAAAATTTCA}$	${\tt AGTCATTTTT}$	CATTCAGTAG	TATAGCCCCA	CCACCACATA
32701	${\tt GCTTATACTA}$	ATCACCGTAC	${\tt CTTAATCAAA}$	CTCACAGAAC	CCTAGTATTC	AACCTGCCAC
32761	${\tt CTCCCTCCCA}$	ACACACAGAG	TACACAGTCC	TTTCTCCCCG	GCTGGCCTTA	AACAGCATCA
32821	TATCATGGGT	AACAGACATA	${\tt TTCTTAGGTG}$	TTATATTCCA	CACGGTCTCC	TGTCGAGCCA
32881	AACGCTCATC	AGTGATGTTA	ATAAACTCCC	CGGGCAGCTC	GCTTAAGTTC	ATGTCGCTGT
32941	${\tt CCAGCTGCTG}$	AGCCACAGGC	TGCTGTCCAA	CTTGCGGTTG	CTCAACGGGC	GGCGAAGGAG
33001	AAGTCCACGC	${\tt CTACATGGGG}$	GTAGAGTCAT	AATCGTGCAT	CAGGATAGGG	CGGTGGTGCT
33061	GCAGCAGCGC	GCGAATAAAC	TGCTGCCGCC	GCCGCTCCGT	CCTGCAGGAA	TACAACATGG
33121	CAGTGGTCTC	CTCAGCGATG	ATTCGCACCG	CCCGCAGCAT	AAGGCGCCTT	GTCCTCCGGG
33181	CACAGCAGCG	CACCCTGATC	TCACTTAAGT	CAGCACAGTA	ACTGCAGCAC	AGTACCACAA
33241	${\tt TATTGTTTAA}$	AATCCCACAG	TGCAAGGCGC	TGTATCCAAA	GCTCATGGCG	GGGACCACAG
33301	AACCCACGTG	GCCATCATAC	CACAAGCGCA	GGTAGATTAA	GTGGCGACCC	CTCATAAACA
33361	CGCTGGACAT	AAACATTACC	TCTTTTGGCA	TGTTGTAATT	CACCACCTCC	CGGTACCATA
33421	${\tt TAAACCTCTG}$	ATTAAACATG	GCGCCATCCA	CCACCATCCT	AAACCAGCTG	GCCAAAACCT
33481	GCCCGCCGGC	TATGCACTGC	AGGGAACCGG	GACTGGAACA	ATGACAGTGG	AGAGCCCAGG

FIG. 17A-13

33541	ACTCGTAACC	ATGGATCATC	ATGCTCGTCA	TGATATCAAT	GTTGGCACAA	CACAGGCACA
33601	CGTGCATACA	CTTCCTCAGG	ATTACAAGCT	CCTCCCGCGT	CAGAACCATA	TCCCAGGGAA
33661	CAACCCATTC	CTGAATCAGC	GTAAATCCCA	CACTGCAGGG	AAGACCTCGC	ACGTAACTCA
33721	CGTTGTGCAT	TGTCAAAGTG	TTACATTCGG	GCAGCAGCGG	ATGATCCTCC	AGTATGGTAG
33781	CGCGTGTCTC	TGTCTCAAAA	GGAGGTAGGC	GATCCCTACT	${\tt GTACGGAGTG}$	CGCCGAGACA
33841	ACCGAGATCG	TGTTGGTCGT	AGTGTCATGC	CAAATGGAAC	GCCGGACGTA	GTCATATTTC
33901	CTGAAGCAAA	ACCAGGTGCG	GGCGTGACAA	ACAGATCTGC	${\tt GTCTCCGGTC}$	TCGTCGCTTA
33961	GCTCGCTCTG	TGTAGTAGTT	${\tt GTAGTATATC}$	CACTCTCTCA	AAGCATCCAG	GCGCCCCTG
34021	$\tt GCTTCGGGTT$	CTATGTAAAC	TCCTTCATGC	GCCGCTGCCC	TGATAACATC	CACCACCGCA
34081	GAATAAGCCA	CACCCAGCCA	ACCTACACAT	TCGTTCTGCG	AGTCACACAC	GGGAGGAGCG
34141	${\tt GGAAGAGCTG}$	GAAGAACCAT	${\tt GTTTTTTTT}$	${\tt TTTATTCCAA}$	AAGATTATCC	AAAACCTCAA
34201	AATGAAGATC	TATTAAGTGA	ACGCGCTCCC	${\tt CTCCGGTGGC}$	${\tt GTGGTCAAAC}$	TCTACAGCCA
34261	AAGAACAGAT	${\tt AATGGCATTT}$	${\tt GTAAGATGTT}$	${\tt GCACAATGGC}$	${\tt TTCCAAAAGG}$	CAAACTGCCC
34321	${\tt TCACGTCCAA}$	${\tt GTGGACGTAA}$	${\tt AGGCTAAACC}$	${\tt CTTCAGGGTG}$	AATCTCCTCT	ATAAACATTC
34381	CAGCACCTTC	AACCATGCCC	${\tt AAATAATTTT}$	CATCTCGCCA	${\tt CCTTATCAAT}$	ATGTCTCTAA
34441	GCAAATCCCG	${\tt AATATTAAGT}$	${\tt CCGGCCATTG}$	${\tt TAAAAATCTG}$	${\tt CTCCAGAGCG}$	CCCTCCACCT
34501	${\tt TCAGCCTCAA}$	GCAGCGAATC	${\tt ATGATTGCAA}$	${\tt AAATTCAGGT}$	${\tt TCCTCACAGA}$	CCTGTATAAG
34561	ATTCAAAAGC	${\tt GGAACATTAA}$	${\tt CAAAAATACC}$	${\tt GCGATCCCGT}$	${\tt AGGTCCCTTC}$	GCAGGGCCAG
34621	CTGAACATAA	${\tt TCGTGCAGGT}$	CTGCACGGAC	CAGCGCGGCC	ACTTCCCCGC	CAGGAACCAT
34681	GACAAAAGAA	CCCACACTGA	${\tt TTATGACACG}$	${\tt CATACTCGGA}$	${\tt GCTATGCTAA}$	CCAGCGTAGC
34741	CCCGATGTAA	${\tt GCTTGTTGCA}$	${\tt TGGGCGGCGA}$	${\tt TATAAAATGC}$	AAGGTACTGC	TCAAAAAATC
34801	AGGCAAAGCC	TCGCGCAAAA	AAGCAAGCAC	${\tt ATCGTAGTCA}$	${\tt TGCTCATGCA}$	GATAAAGGCA
34861	GGTAAGTTCC	GGAACCACCA	CAGAAAAAGA	${\tt CACCATTTTT}$	${\tt CTCTCAAACA}$	TGTCTGCGGG
34921	TTCCTGCATA	AACACAAAAT	AAAATAACAA	${\tt AAAAAAAAA}$	ACATTTAAAC	ATTAGAAGCC
34981	TGTNTTACAA	CAGGAAAAAC	AACCCTTATA	AGCATAAGAC	GGACTACGGC	CATGCCGGCG
35041	TGACCGTAAA	AAAACTGGTC	${\tt ACCGTGATTA}$	AAAAGCACCA	${\tt CCGACAGTTC}$	CTCGGTCATG
35101	TCCGGAGTCA	${\tt TAATGTAAGA}$	${\tt CTCGGTAAAC}$	${\tt ACATCAGGTT}$	${\tt GGTTAACATC}$	GGTCAGTGCT
35161	AAAAAGCGAC	CGAAATAGCC	${\tt CGGGGGAATA}$	CATACCCGCA	${\tt GGCGTAGAGA}$	CAACATTACA
35221	GCCCCCATAG	GAGGTATAAC	${\tt AAAATTAATA}$	GGAGAGAAAA	ACACATAAAC	ACCTGAAAAA
35281	CCCTCCTGCC	TAGGCAAAAT	AGCACCCTCC	CGCTCCAGAA	CAACATACAG	CGCTTCCACA
35341	GCGGCAGCCA	TAACAGTCAG	CCTTACCAGT	АААААААССТ	ATTAAAAAAC	ACCACTCGAC
35401	ACGGCACCAG	CTCAATCAGT	CACAGTGTAA	AAAGGGCCAA	GTACAGAGCG	AGTATATATA
35461	GGACTAAAAA	ATGACGTAAC	GGTTAAAGTC	CACAAAAACC	ACCCAGAAAA	CCGCACGCGA
35521	ACCTACGCCC	AGAAACGAAA	GCCAAAAAAC	CCACAACTTC	CTCAAATCTT	CACTTCCGTT
35581	TTCCCACGAT	ACGTCACTTC	CCATTTTAAA	AAAAAACTAC	AATTCCCAAT	ACATGCAAGT
35641	TACTCCGCCC	TAAAACCTAC	GTCACCCGCC	CCGTTCCCAC	GCCCGCGCC	ACGTCACAAA
35701	CTCCACCCC	TCATTATCAT	ATTGGCTTCA	ATCCAAAATA	AGGTATATTA	TTGATGATG

Animal Prime (Wk 0, 4, 26)		Boost (Wk 56)		Pre		Prime ^b		Pre-Boost°		Post-Boost ^d	
			Mock ^a	Gag*	Mock	Gag	Mock	Gag	Mock	Gag	
Monkey 1	10° vp MRKAd5-gag	1011 vp Ad24ΔE1gagΔOrf6Ad5Orf6	18	16	1	244	3	74	3	1235	
Monkey 2	107 vp MRKAd5-gag	1011 vp Ad24ΔE1gagΔOrf6Ad5Orf6	10	9	4	83	0	18	0	856	
Monkey 3	10° vp MRKAd6-gag	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	1	1	٥١	219	9	69	0	703	
Monkey 4	10 ⁷ vp MRKAd6-gag	10 ¹¹ vp Ad24ΔE1gagΔOrf6Ad5Orf6	1	1	3	59	1	20	0	419	
Monkey 5	none	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	3	4	ND*	ND	ND	ND	4	558	
Monkey 6	none	1011 vp Ad24∆E1gag∆Orf6Ad5Orf6	0	3	ND	ND	ND	ND	1	295	
Monkey 7	none	1011 vp Ad24ΔE1gagΔOrf6Ad5Orf6	1	9	ND	ND	ND	ND	9	103	
Monkey 8	none	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	3	3	ND	ND	ND	ND	1	381	
Monkey 9	none	10 ¹¹ vp Ad24ΔE1gagΔOrf6Ad5Orf6	0	6	ND	ND	ND	ND	0	369	
Monkey 10	none	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	15	5	ND	ND	ND	ND	10	211	

Animal	Prime (Wk 0, 4, 26)	Boost (Wk 56)	Gag-Specific	T cells (Wk 60)
	- 0		%CD4	%CD8
Monkey 1	109 vp MRKAd5-gag	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	0.06	0.37
Monkey 2	10 ⁷ vp MRKAd5-gag	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	0.01	
Monkey 3	10 ⁹ vp MRKAd6-gag	40 ¹¹ 4 10 4 7 7 7	0.01	0.56
•		10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	0.07	0.06
Monkey 4	10 ⁷ vp MRKAd6-gag	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	0.04	0.20

Animai	Prime (Wk 0, 4) Boost (Wk 24) Pre		re	Prime ^b		Pre-Boost ^c		Post-Boost ^d		
			Mock*	Gag*	Mock	Gag	Mock	Gaq	Mock	Gag
Monkey 11	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	107 vp MRKAd5-gag	3	4	3	150	4	28	0	188
Monkey 12	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	107 vp MRKAd5-gag	١٥	3	1	753	نه ا	554	١٠	1029
Monkey 13	10 ¹¹ vp Ad24∆E1gag∆Orf6Ad5Orf6	10 ⁷ vp MRKAd5-gag	1	9	4	273	ō	370	ő	1520
Monkey 14	none	10 ⁷ vp MRKAd5-gag	١,	0	ND*	ND	ND	ND	4	94
Monkey 15	none	107 vp MRKAd5-gag	0	0	ND	ND	ND	ND	1	168
Monkey 16	none	107 vp MRKAd5-gag	8	3	ND	ND	ND	ND	ا ا	149